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5

THE ARCHITECTS' JOURNAL

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standard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur

NEWS and COMMENT

Diary
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Astragal's Notes and Topics
Letters
Societies and Institutions

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Information Centre
Current Technique
Working Details
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Prices
The Industry

CURRENT BUILDING

Major Buildings described: Details of Planning, Construction, Finishes and Costs
Buildings in the News
Building Costs Analysed

Architectural Appointments Wanted and Vacant

No. 3191] [VOL. 123

THE ARCHITECTURAL PRESS

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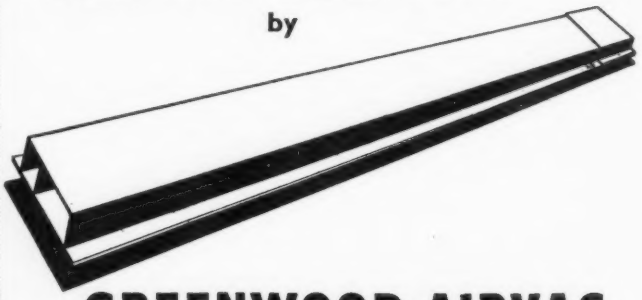
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ig one week, Ih to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 1, Ashley Place, S.W.1.	Victoria 0447–8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
BTE	Building Trades Exhibition. 32, Millbank, S.W.1.	Tate Gallery 8134
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Newport 65491
CAS	County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Chichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Reliance 7611 Ext. 1284
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland.	
COID	Council of Industrial Design. 28, Haymarket, S.W.1.	Trafalgar 8000
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.1.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 68, Gloucester Place, W.1.	Welbeck 9966
FASS	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1.	Abbey 7232
FBBDO	Fibre Building Board Development Organization, Ltd. 47, Princes Gate, Kensington, S.W.7.	Kensington 4577
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	Regent 0221
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd., Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4341
GBPA	Gypsum Building Products Association, 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 16, Hanover Square, W.1.	Mayfair 5454
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 29, Belgrave Square, S.W.1.	Belgravia 3755
ICA	Institute of Contemporary Arts. 17–18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. 1, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266



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Architects: E. A. Stone, Toms & Partners, London, W.1.
Contractors: Geo. Wimpey & Co., Ltd., London, W.6.
Electrical Contractors: Berkeley Electrical Engineering Co., Ltd., London, S.W.1.

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by

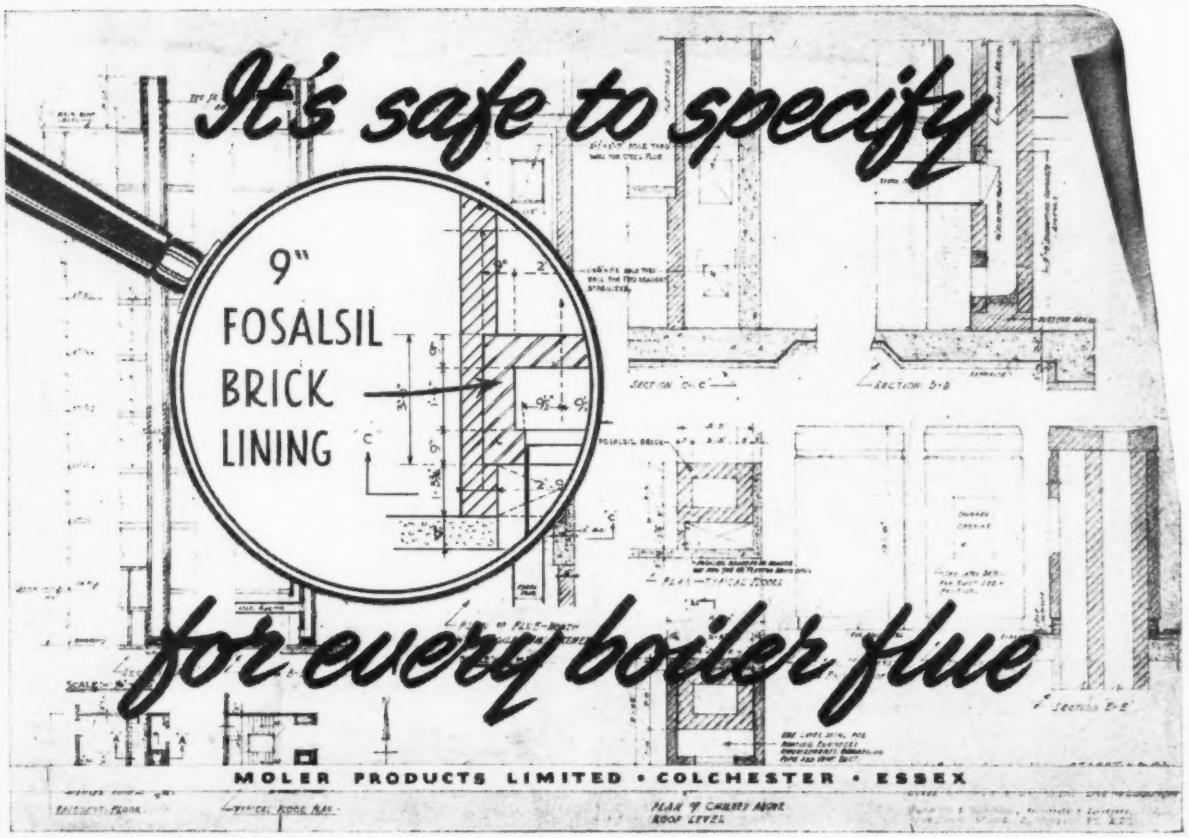


GREENWOOD-AIRVAC

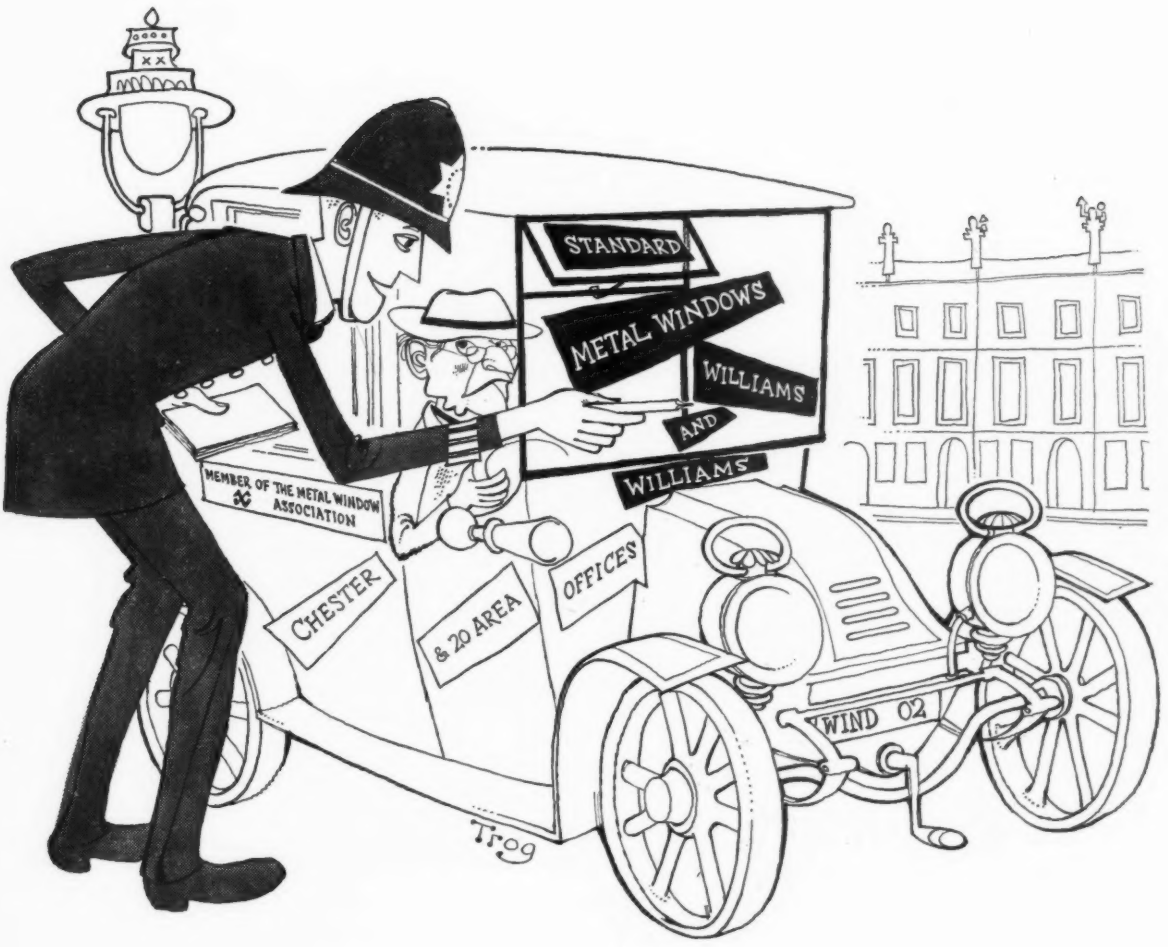
Greenwood-Airvac conduit system was installed in Haymarket House—one of the many new buildings so equipped.

The publication 'Greenwood-Airvac Conduit Systems' tells you more about Greenwood-Airvac cable ducts. Please write for a free copy.

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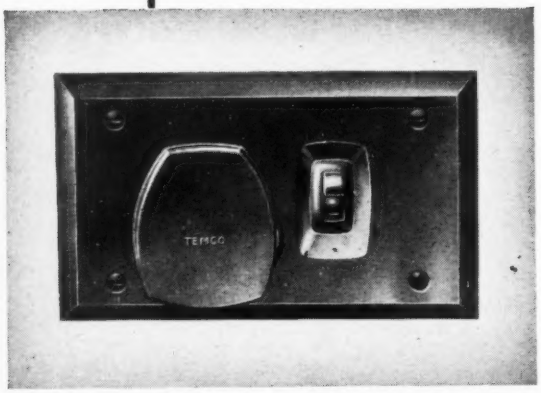


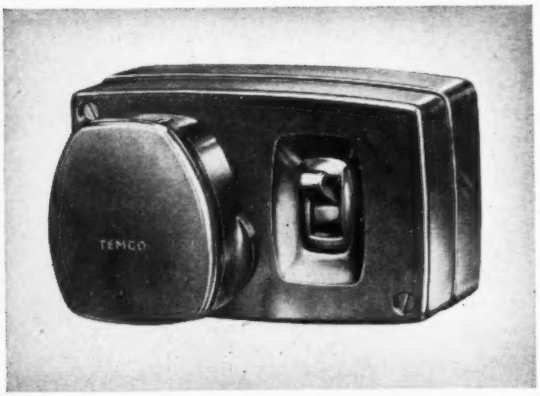


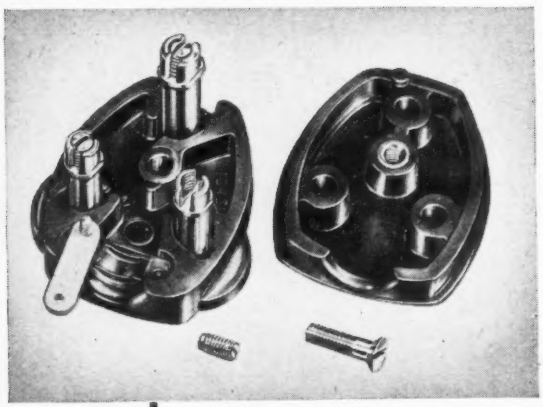

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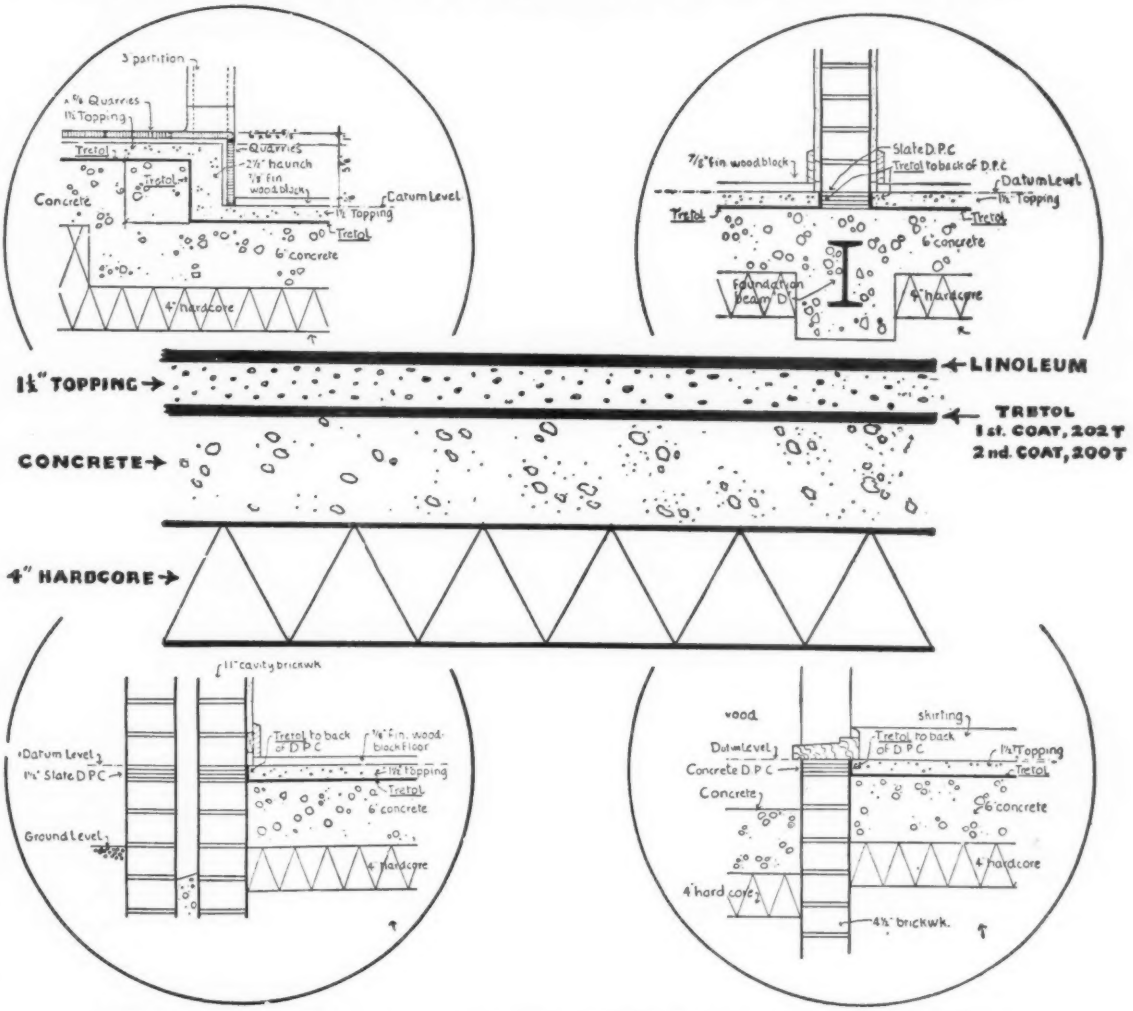
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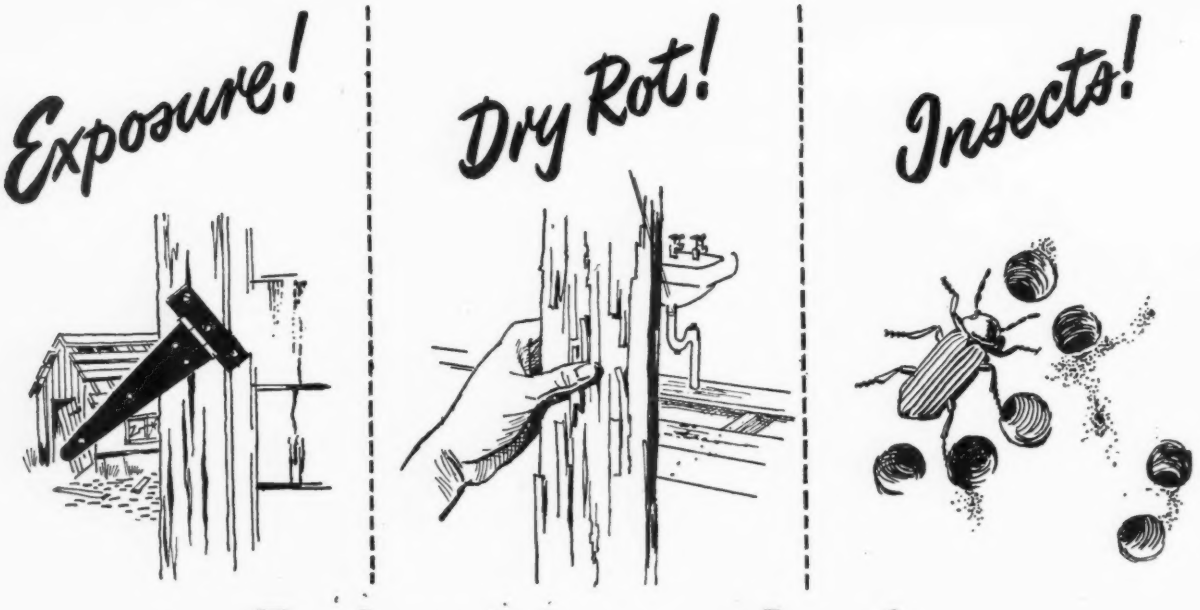
Not always appreciated, but perhaps of major importance, is the fact that **dry floors are warm floors.** Keep dampness well away from the final screed, and a valuable contribution is immediately made to better thermal insulation in domestic dwellings.

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Presotim is prepared in a special "neutral" grade which makes it especially effective for old and valuable timbers such as church roofs and panelling, where it protects without altering the characteristic colour of the wood.

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For work where a thoroughly reliable, well-tried wood preservative is needed, Presotim offers to architects, builders and others long-term protection against decay at very low cost.

HOW PRESOTIM IS SUPPLIED

Presotim is marketed in small containers, 5, 10, and 40-gallon drums. It is available in neutral grade, three shades of brown and twelve other attractive colours.
Prices from 4/- per gallon in 40-gallon drums.

NCB Manufactured by

THE NATIONAL COAL BOARD

For further details and advice on any technical problem, please write to National Coal Board, By Products, National Provincial Bank Buildings, Docks, Cardiff

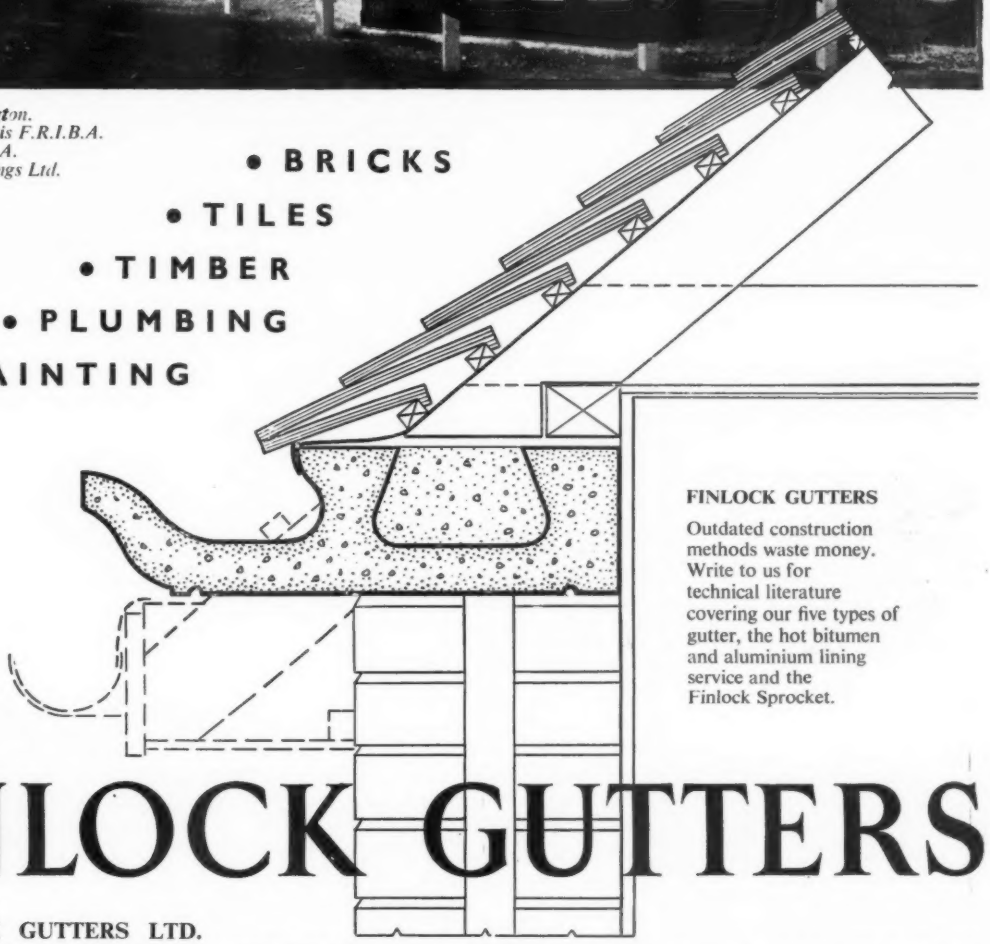
Presotim is a Registered Trade Mark.



Popham House, Wellington.
Architects : R. O. Harris F.R.I.B.A.
D. J. Simpson A.R.I.B.A.
Contractors : H. Hoskings Ltd.

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DHB/2546

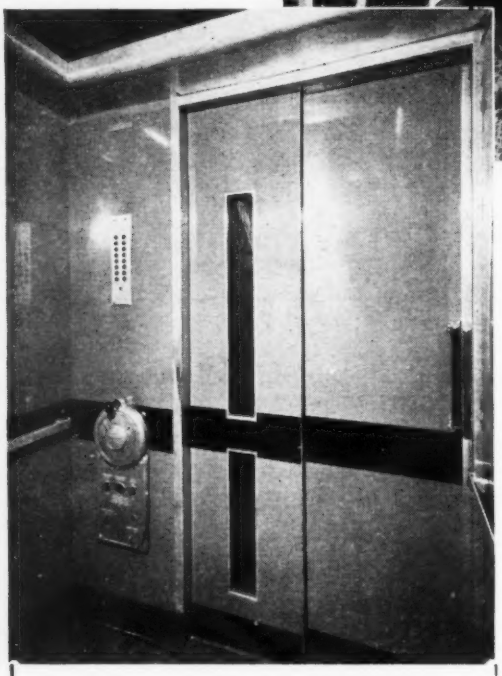
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in traditional and modern materials



A modern bar at the "Apple Tree", Crawley. Architects: Godman & Kay, F/F.R.I.B.A.

Lift Panelling at Mount Royal, W.1.



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SPRINGFIELD PLACE, from a recent painting by Felix Kelly



Springfield Place, Chelmsford, Essex, is the home of Mr. E. R. Collister, A.A. Dipl., A.R.I.B.A. Mr. Collister recently converted much of the house into offices, and installed an oil-fired heating system. The fuel is supplied by Shell-Mex and B.P. Ltd.

THIS ARCHITECT'S HOME IS ALWAYS WARM

It has oil-fired central heating

WHEN Mr. E. R. Collister, who is an architect, decided to convert the greater part of his charming 18th century house into offices, he chose an oil-fired central heating system. Now, living and working in the same building, he enjoys an easily controlled temperature all the year round.

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If you are designing, or modifying, any largish premises, you may care to have further technical information about oil-fired heating. Please write to Shell-Mex and B.P. Ltd., Fuel Oil Dept. 2F, Shell-Mex House, Strand, London, W.C.2.

All the hot water she wants . . . with the NEW FLAVEL NATIONAL



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Your clients will be quick to grasp the advantages of having plenty of really hot water *instantly* available all the year round and at any time of the day or night. In summer, a boiler system can prove an expensive nuisance; a National in the kitchen does away with the need for fires when the weather's warm and ensures that there's *always* plenty of hot water on tap for early morning shaves, quick cups of tea and a thousand other things.

The high-quality and perfect finish of the National ensure trouble-free performance throughout its long life; the architect who specifies or recommends it can rest assured of the future comfort of his clients.

THE FLAVEL NATIONAL INSTANTANEOUS SINK GAS WATER HEATER

- ★ Provides a full half-gallon of piping hot water every minute.
- ★ A broken feed type heater, with all working parts totally enclosed. Designed for wall fixing, it works equally well on both hard and soft water.
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- ★ The removal of a single knurled nut enables the heat exchanger to be unhooked and cleaned in less than five minutes by the consumer.
- ★ 12 Bray burner jets require no maintenance in normal use. Rating: 35,000 B.Th.U/hr. Connections: gas ½″ B.S.P.; water ⅜″ B.S.P.
- ★ Height 25¼″, width 8½″, depth 7¾″, weight 20½ lbs. 6″ spout supplied as standard, but 9″ 12″ or 18″ spouts are available.

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CANADIAN

Spruce

A Canadian wood, creamy white in colour and sometimes tinged with red, that has a wide range of uses.

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Light and medium construction, agricultural implements, windows and doors, shelves and general carpentry

Scaffolding, ladders, kitchen furniture

Wagon boxes, concrete forms, pumps, tanks and silos

Oars and paddles, organ pipes, sounding boards for musical instruments

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Strong for its weight, yet comparatively soft and very resilient

Seasons readily and uniformly

Easily worked, takes smooth satiny finish

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Minimizes "wood tainting" in packaging of foods, butter, etc.

Takes nails without splitting and holds them well.

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This advertisement is one of a series featuring Canadian Douglas Fir, Red Pine, White Pine, Western Red Cedar and Pacific Coast Hemlock.

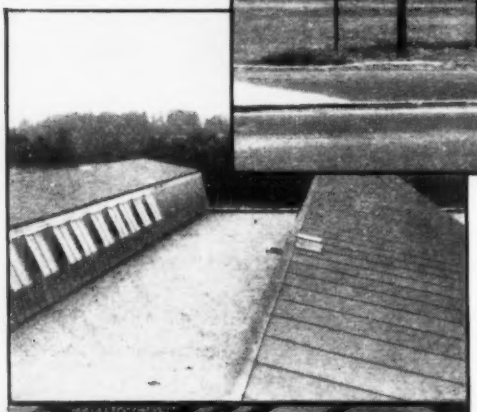
TIM 6

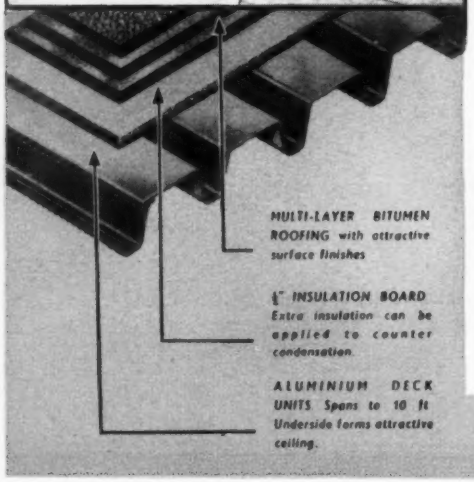
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ROVER *relies on* BITUMETAL



Architects:
HASKER & HALL, LONDON.





Where Craftsmanship, Dependability and Endurance mean so much, there you will find "BITUMETAL", Briggs Modern Development in Aluminium Roofing. The Rover Company Limited chose "BITUMETAL" for their large new factory at Solihull, Birmingham because, in addition to reliability, it provided Roof plus Insulation plus Ceiling in one unit at an economical cost.

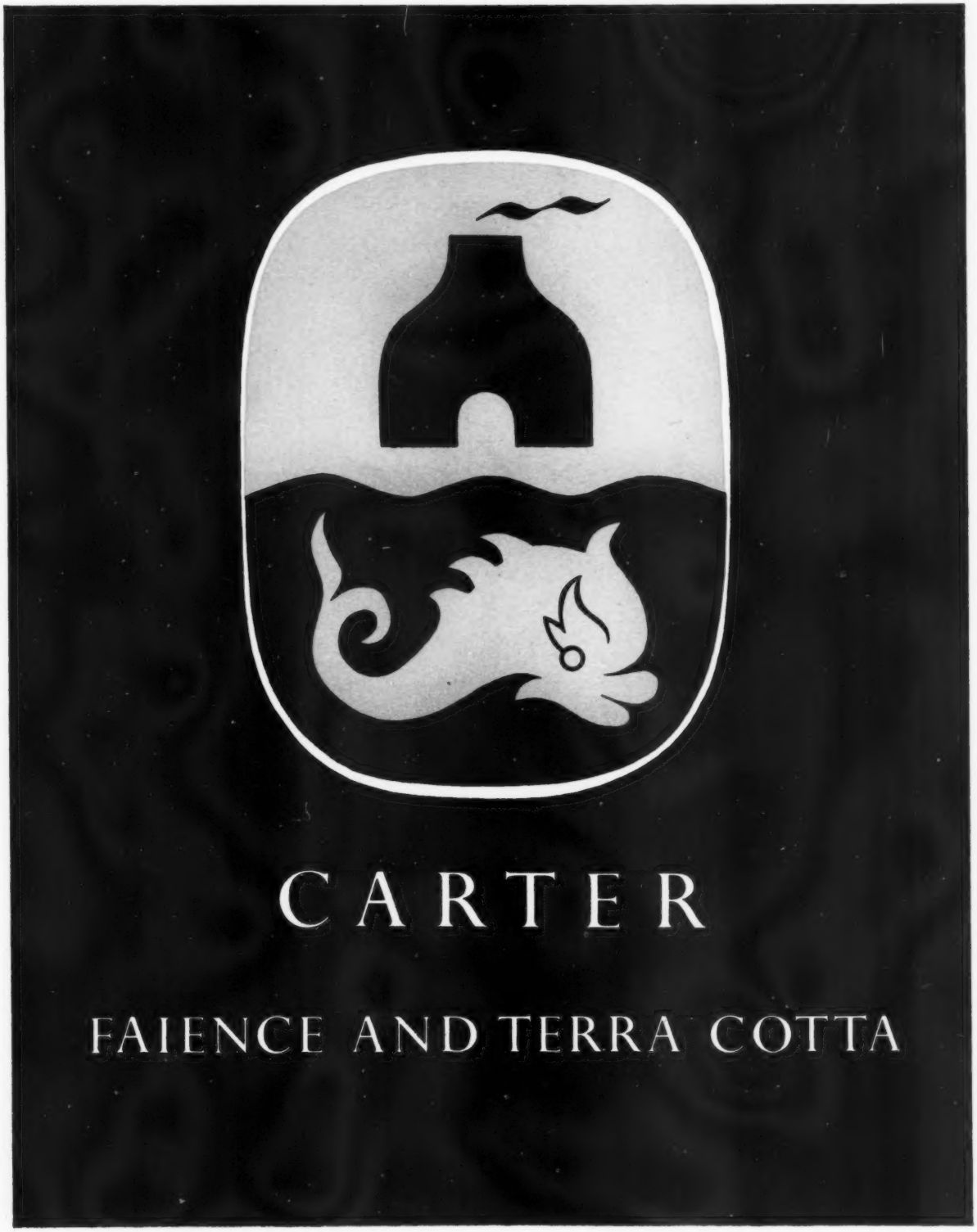
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Carter & Co. London Ltd. 29 Albert Embankment, SE 11. Telephone: Reliance 1471
Manchester Office: 27 Brazennose Street, Manchester 2. Telephone: Blackfriars 2098
Art Pavements & Decorations Ltd. St. Paul's Crescent, Camden Town, NW 1. Telephone: Gulliver 2226
J. H. Barratt & Co. (1927) Ltd. Boothen Tile Works, Stoke-on-Trent. Telephone: Stoke-on-Trent 44717
The Marbolith Flooring Co. Ltd. 29 Albert Embankment, SE 11. Telephone: Reliance 2062
Commercial Marble & Tiles Ltd. Selborne Gardens, Newcastle-upon-Tyne 2. Telephone: Newcastle 811373
R. Campbell & Sons, 13 Steads Place, Edinburgh 6. Telephone: Leith 39188

CT25



*Light on Terylene**

This beautiful, embroidered ball gown by Victor Stiebel includes 125 yds. of 'Terylene', I.C.I.'s wonderful new man-made fibre. 'Terylene' begins as a petroleum distillate emerging later as filament yarn and staple fibre. During its chemical transformation it is polymerised in autoclaves at very high vacuum and high temperatures.

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* *'Terylene' is a registered trade mark*

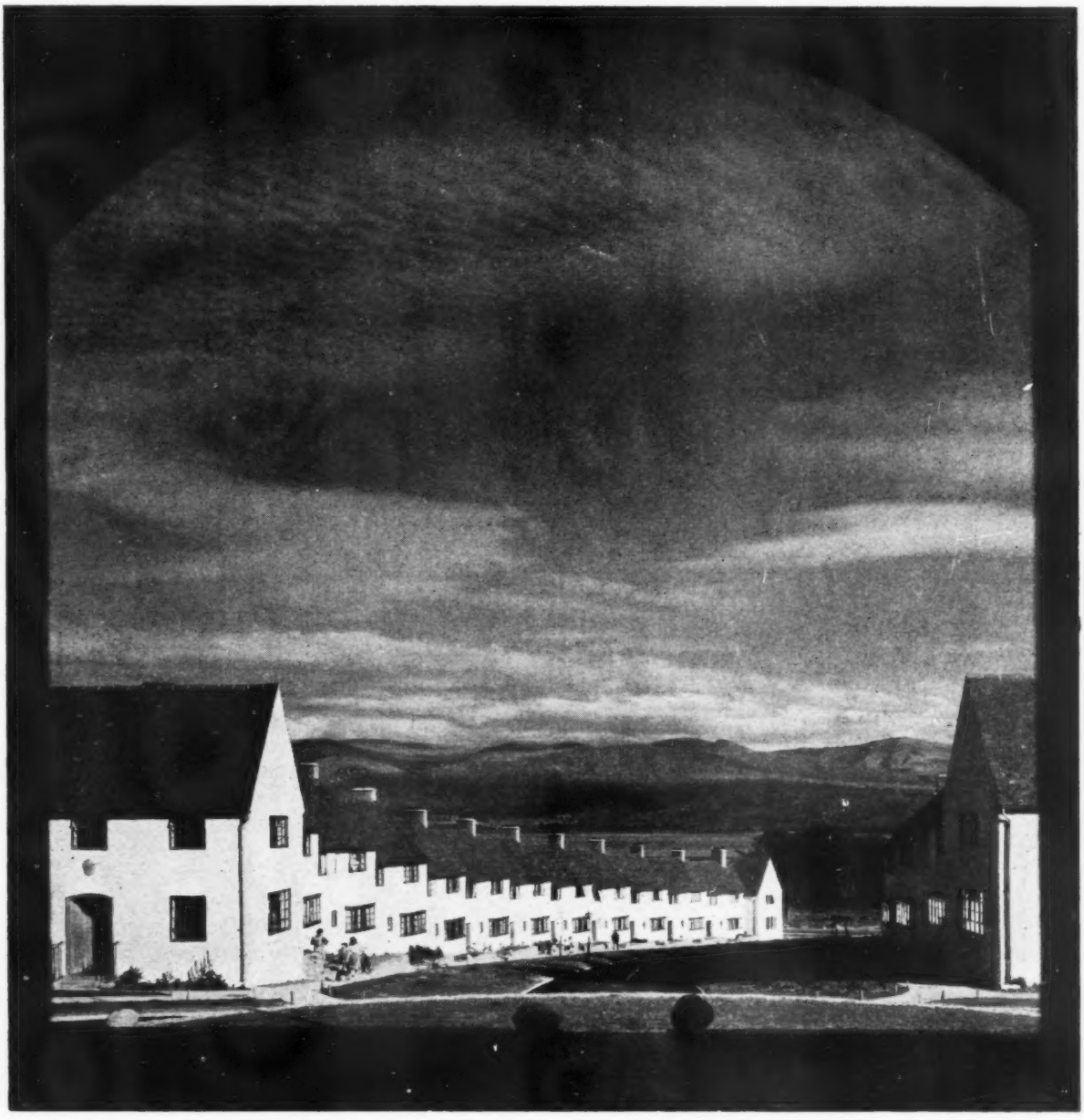
For hazardous areas in chemical processing and other plant requiring the specialised services of Holophane, our Technical Service Department will gladly co-operate in the advancement of a planned scientific lighting system to meet special needs. Meanwhile please ask for *Publication 5301 Flameproof Fittings · Publication 4706/A Industrial Lighting.*

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AWARDED MINISTRY HOUSING MEDAL 1954
Architect: S. C. FOULKES, M.ARCH., F.R.I.B.A.
Builders: J. C. EVANS LTD., BIRKENHEAD



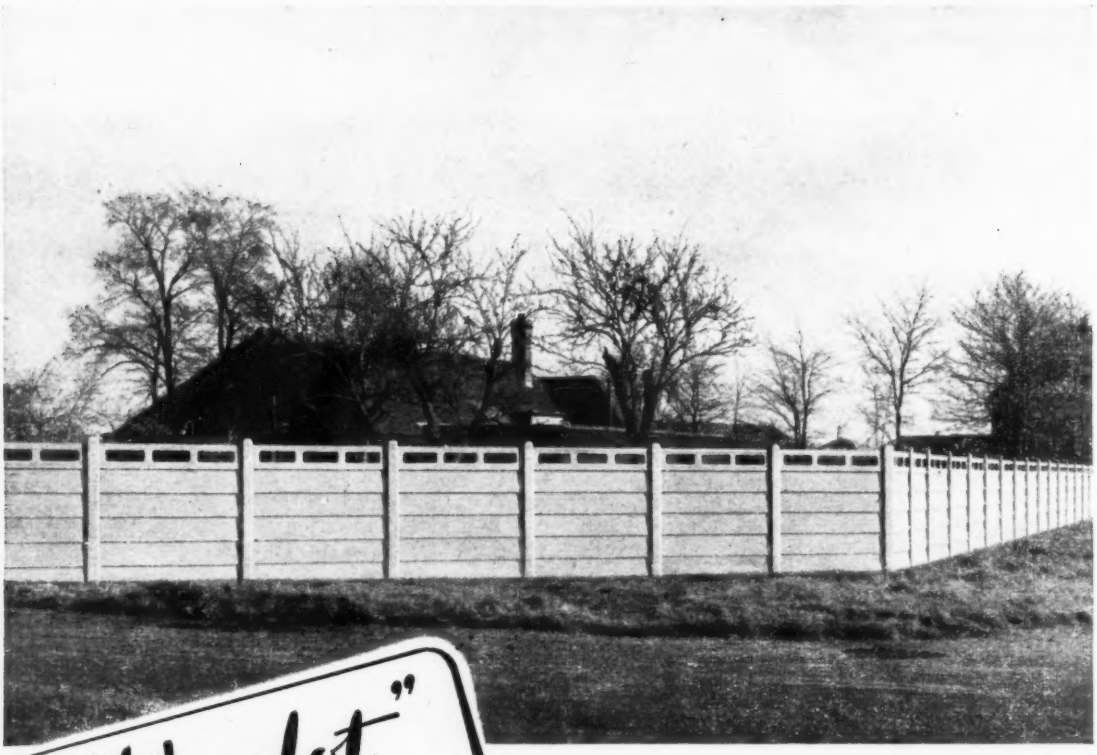
Lead flashings and weatherings *"set the seal"* on a good roof

LEAD LASTS

The Council's Technical Information Bureau will gladly help with problems on the use of Lead Sheet and Pipe in building work. Details of the main uses are given in a series of Information Sheets and Bulletins, which can be obtained by applying to the Council.

Lead is even more widely used today than in the past, because no other material can be fitted close to the structure with the same ease nor can give as long a trouble-free life in town, rural or marine exposures. For lowest cost per annum, there is nothing to equal lead roofings, weatherings and flashings.

LEAD SHEET AND PIPE COUNCIL *in association with* LEAD DEVELOPMENT ASSOCIATION
EAGLE HOUSE · JERMYN STREET · LONDON S.W.1 Telegrams: Ukleadman, Piccy, London Telephone: Whitehall 4175
E116/5/55



"Winslot" REGD. DESIGN
UNIT FENCE

"Winslot" Fencing at the Molesey Hospital. Photograph reproduced by courtesy of the Kingston Group Hospital Management Committee.

The following LICENSEES have works operating to supply "Winslot" fencing to all areas in England, Wales and Northern Ireland at economical rates.

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DEVON: DEVON CONCRETE WORKS LTD.

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. . . for all sites where **PERMANENT FENCING** is required

"Winslot" is the ideal PERMANENT Fence for Industrial and Municipal sites. It is manufactured by a new method to give a consistent quality finish. Reinforcement of all units is perfectly covered by means of patent bar spacers. **Units are cast in a sepia shade of brown colour which produces a mature and pleasing appearance.** Available in heights from 1ft. to 12ft. with or without trellis. "Winslot" fencing is a sound investment, it is permanent and incurs no maintenance cost.

Enquiries invited for supply and erection. Send for "Winslot" illustrated Specification Folder.

METROPOLITAN CONCRETE WORKS LIMITED

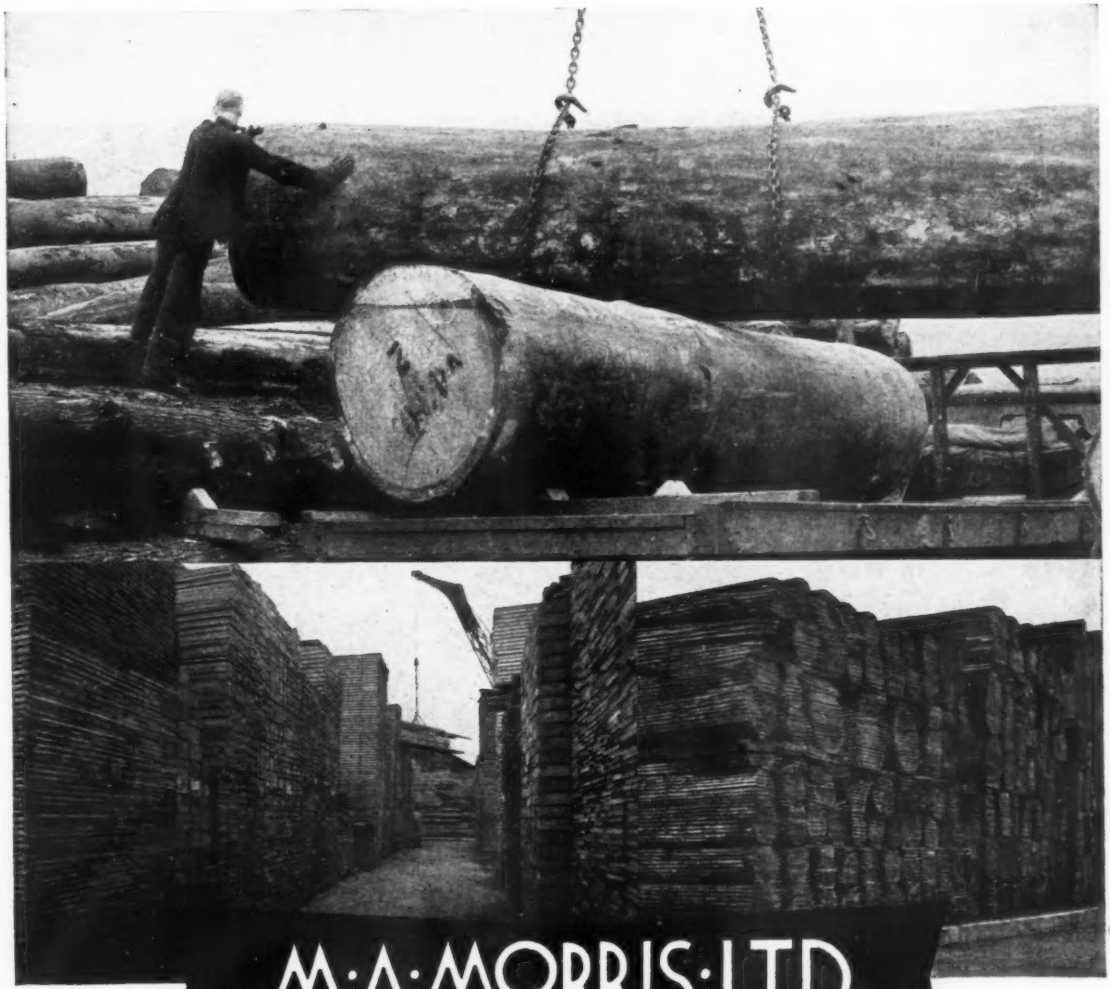
IMBER COURT, EAST MOLESEY, SURREY. **Telephone: EMBerbrook 2211/2**

Proprietors of "Winslot" Registered Designs

THE FIRST COST IS THE LAST COST - WITH "WINSLOT"

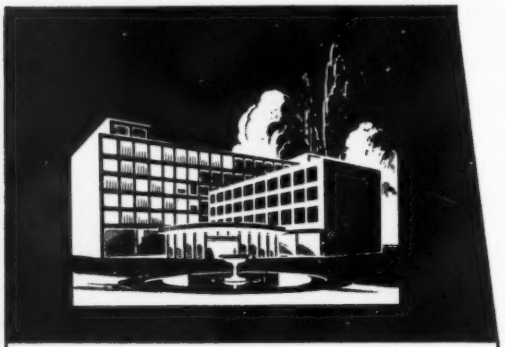
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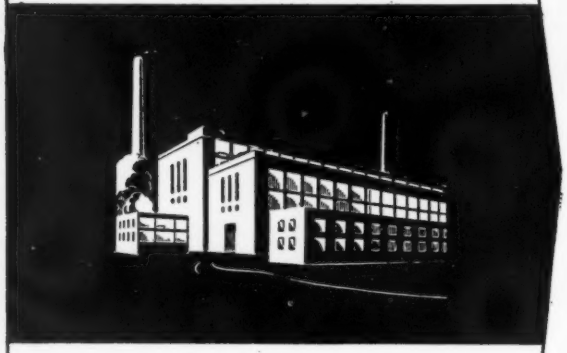


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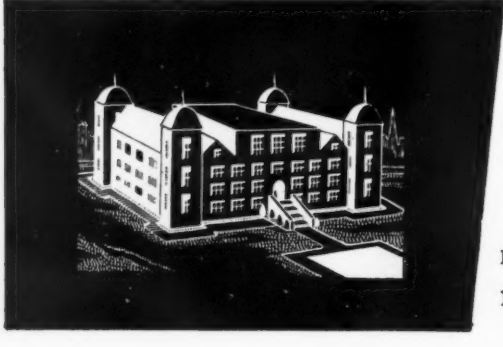
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NEWCASTLE GLASGOW DAR-ES-SALAAM

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Cascalite



gives glare-free shadowless lighting

Shown above is a part of a building of London Brick Company Limited fitted with 8ft. Cascalite Big Six untinted sheets. Notice how evenly the lighting is distributed over the whole area. There are no shadows nor is there non-diffused sunlight glare.

What is Cascalite?—Cascalite is moulded from resin and fibreglass, and is a pioneer material produced by Cascelloid of Leicester, whose research and experience over many years have assured consistently high quality. Installations of Cascalite are being made all over the world, and conform in every way to the rigid specifications required.

Cascalite Cuts Down Heat.—The thousands of tiny glass fibres in Cascalite diffuse the heat of the sun's rays, and consequently reduce the heat under its surface. Working conditions are made more pleasant because of this restriction of sun heat. There is no need for roofs to be whitewashed or fitted with blinds as in transparent roofing.

Try this test. Write for a sample of Cascalite, hold it in the rays of the sun. The area underneath is cool compared with direct sun temperature.

Cascalite Diffuses Light.—Just as the pearl electric lamp has superseded the plain glass lamp, so Cascalite, with its translucent, even lighting, is the natural successor to transparent roof lighting.

Cascalite is Shatterproof.—Breakages are a thing of the past when using Cascalite. A hammer dropped on its surface merely rebounds. Cascalite can be sawn, nailed, or screwed, making installations safe, easy, and inexpensive.

Standard Profiles.—Cascalite is produced in all standard corrugated profiles; also in reeded, and flat sheets; and is supplied in 3 ft. to 8 ft. lengths.

Cascalite Colours.—Cascalite is produced in the following colours: Untinted, Light Ivory, Skylight Green and Sunlight Yellow; but other shades can be given on bulk orders.

Cascalite Uses.—Cascalite can be used for roof lights, vertical glazing, partitioning, wall cladding, door panels, illuminated facias; it is lightweight and decorative.

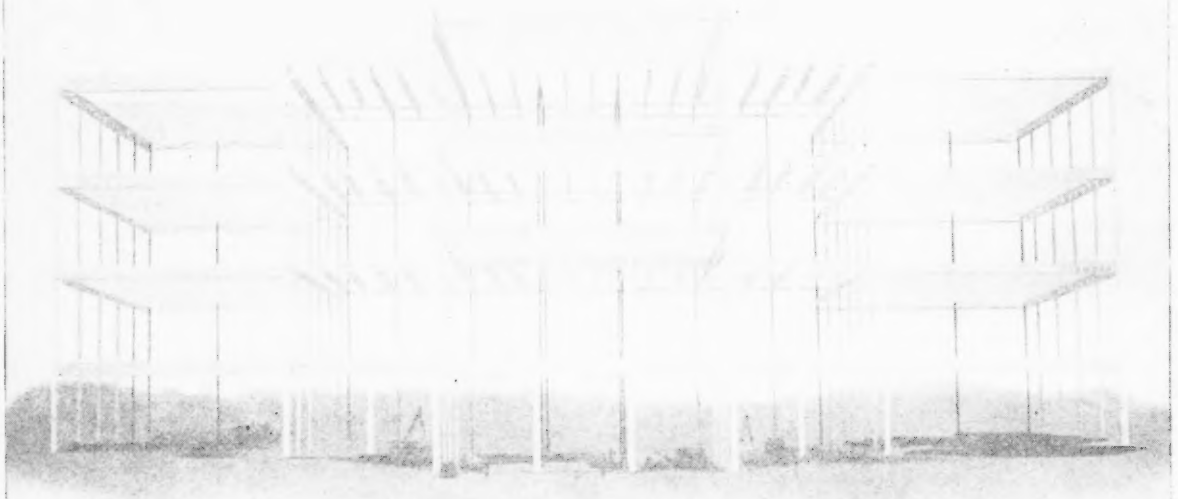
Write for price list, illustrated brochure, and samples, to:

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Division of the British Xylonite Co Ltd. *Tel: 61811*

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USSI6



ZINC METALLISATION

—essential protection against R-U-S-T



Let's face it — the enemy of all steel windows is R-U-S-T. But whilst it is generally accepted that a good coating of zinc will give adequate protection, not everyone agrees which is the best method of applying it.

The John Thompson Zinc Metallisation Process is logical, positive, and effective — it cannot fail. It is carried out in three stages. First, the window is shot-blasted at a pressure of 80 lbs. p.s.i. to produce a meticulously clean and slightly roughened surface. Then comes the application of the essential protective zinc coating (99.5% pure) as shown above. Under the flame of the oxy-propane spray gun the whole of the window and its frame, every nook or cranny where moisture can penetrate and collect, receives its heavy overcoat of rust-resistant molten zinc.

Finally, to seal this rustproofed surface, the window is passed through a zinc chromate primer bath and stoved at a controlled temperature of 400°F. Builders should note, therefore, that no additional priming coat is ever necessary with a Beacon Window. After installation it is ready to receive its finishing coats without further expense or delay — often saving as much as £4 on an average house.

Stage 2
Applying the zinc coating



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Member of the Metal Window Association

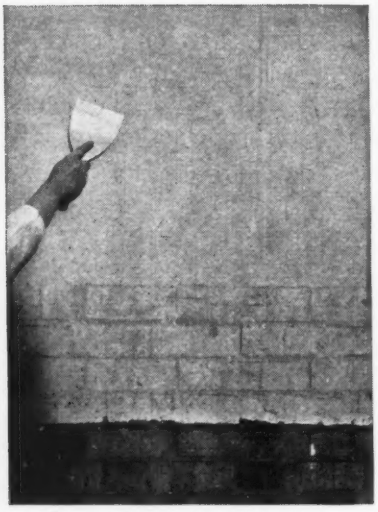
JOHN THOMPSON BEACON WINDOWS LTD · WOLVERHAMPTON

FILLEX

Dockers new general purpose filler

(ready mixed)





1 Fillex being applied over brickwork

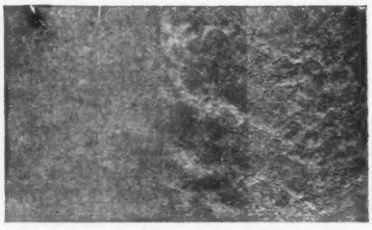
Here is a NEW general purpose filling compound, designed specially for the decorator.

FILLEX, which is supplied in ready-for-use paste form, can be used for filling in cracks in plaster and for skimming rough surfaces. It is suitable for most surfaces other than wood or metal.

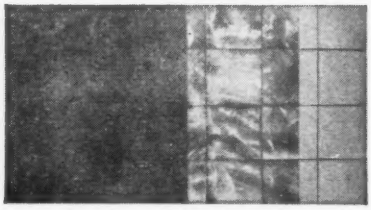
FILLEX

- **is suitable for INSIDE and OUTSIDE work.**
- **has exceptional adhesive properties and can even be used on glazed tiles to produce a smooth surface for painting.**
- **has excellent keeping qualities (but should be protected from frost).**
- **is supplied in 4 lb. and 16 lb. tins.**

PRICE: 4 lb. tins at 1/6 per lb.
16 lb. tins at 1/3 per lb.



2 Fillex being applied over textured paint surface



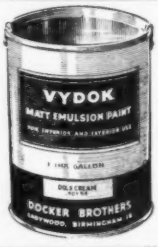
3 Application of Fillex to tiled surface

After **FILLEX** *finish off with...*

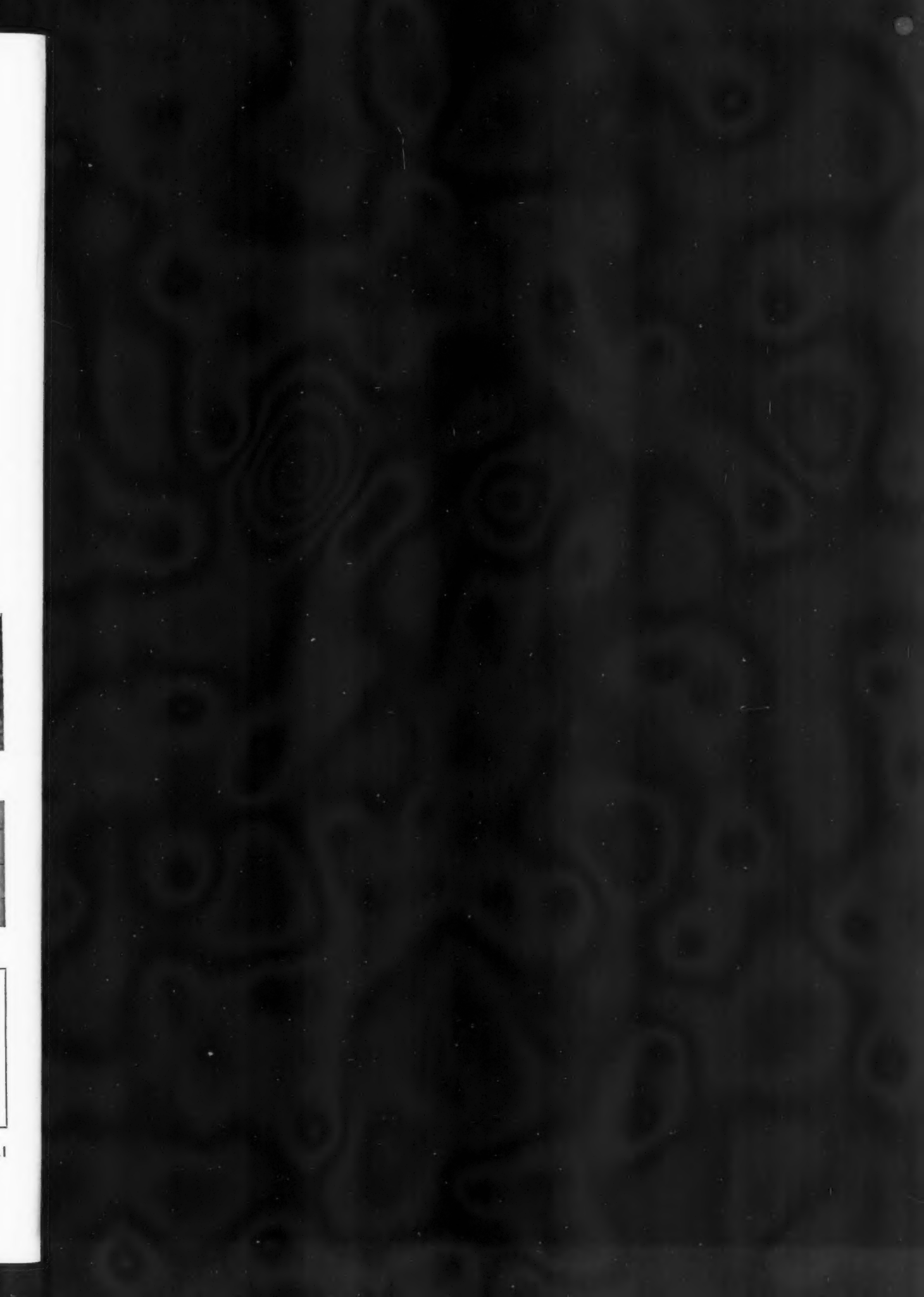
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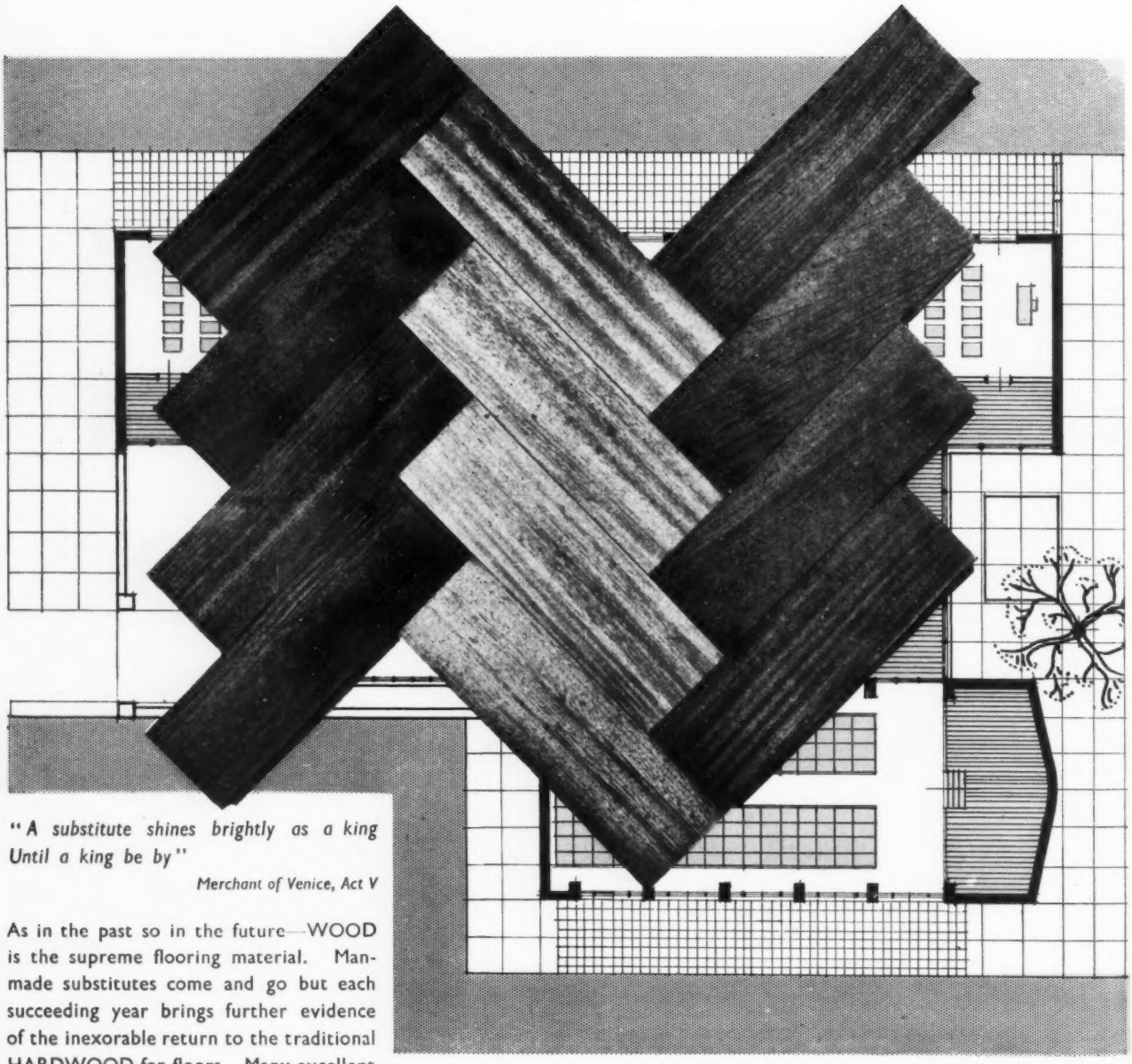
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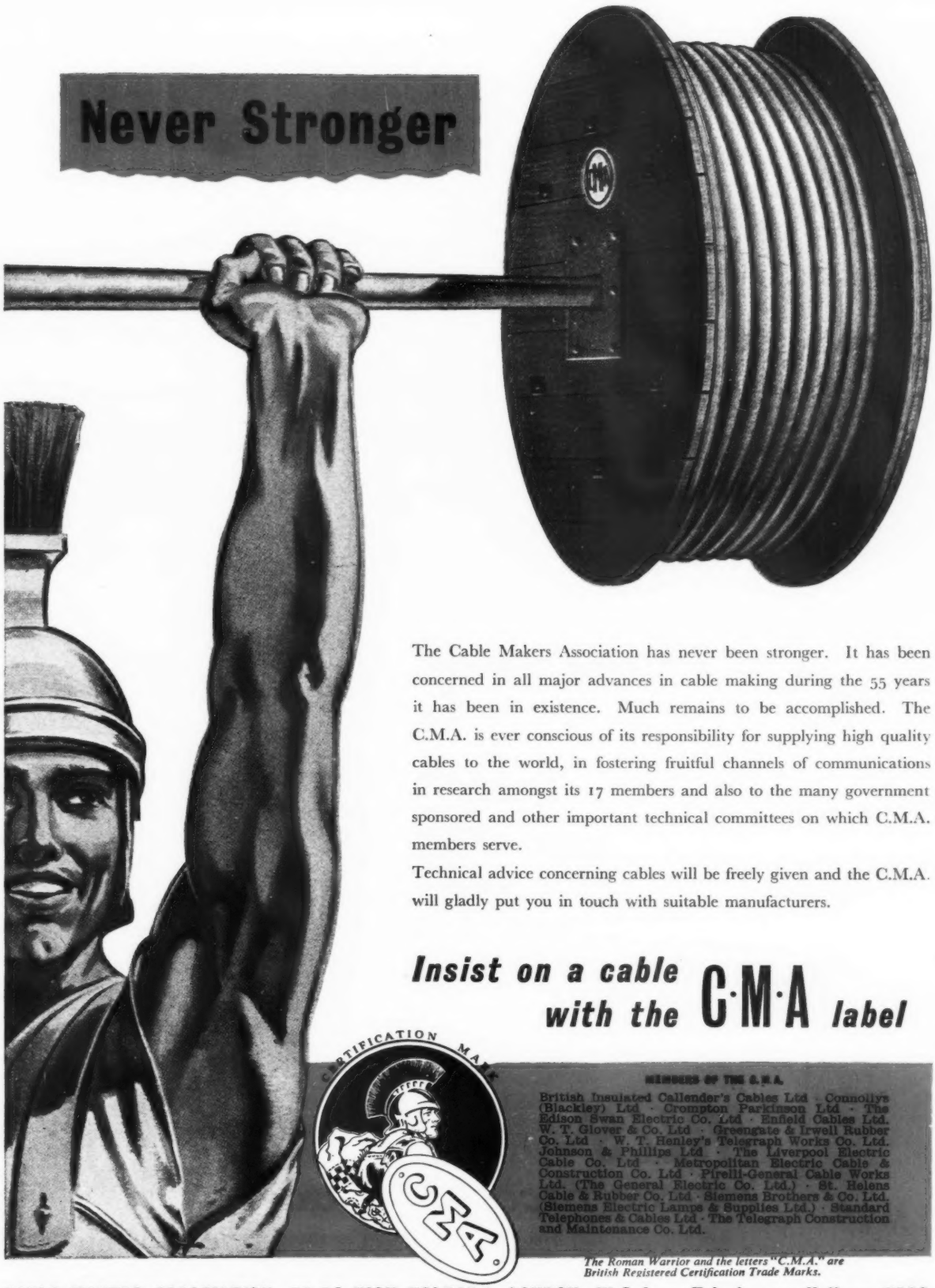
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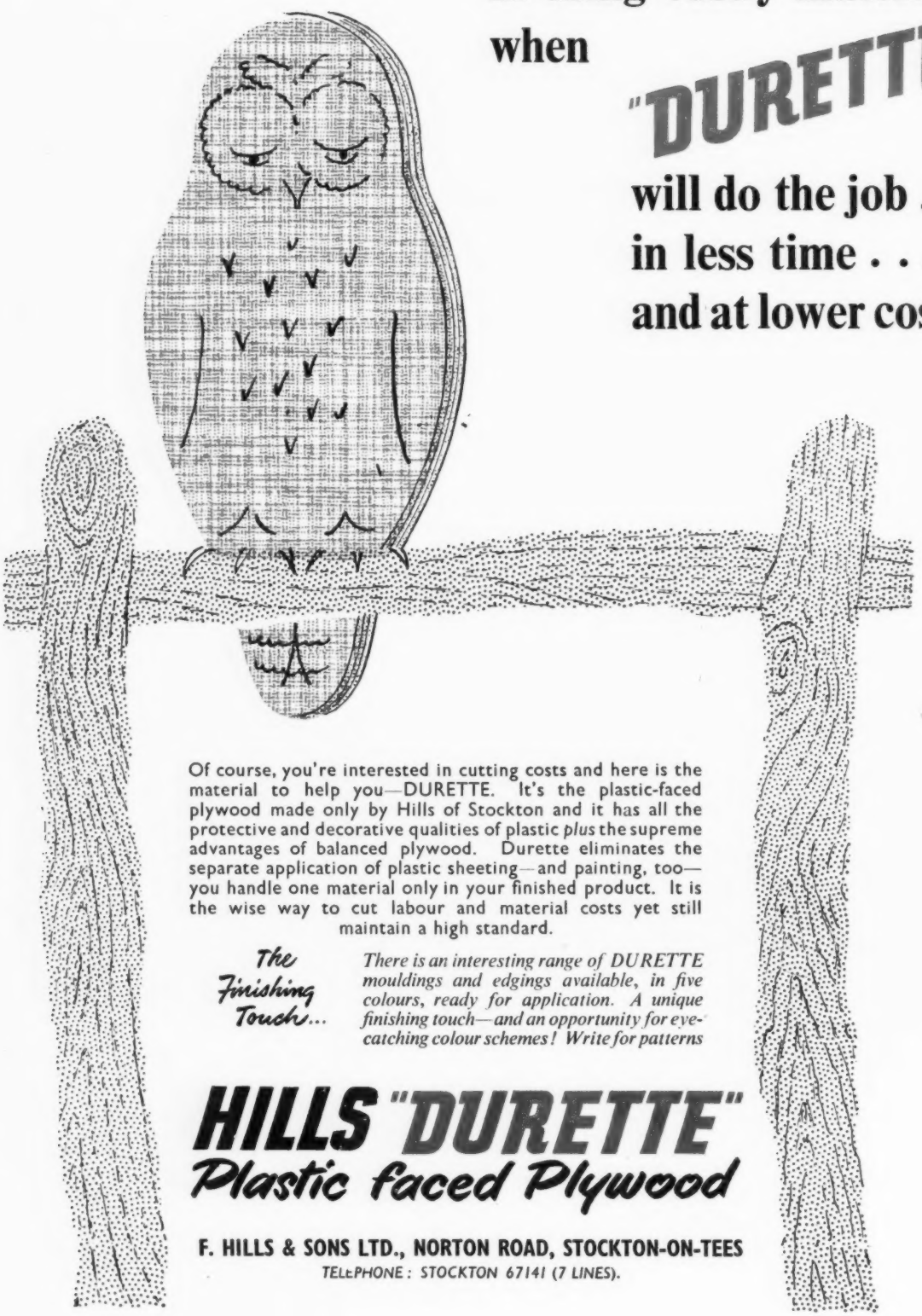
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CMA/1

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G B P A

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plain and insulating

REDUCES THE FIRE HAZARD

G20



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Partner-in-charge: G. J. Easton, A.R.I.B.A.
Consulting Engineer: F. J. Samuely, B.Sc.(Eng.), A.M.I.C.E., M.I.Struct.E.
Quantity Surveyors: Cyril Sweett & Partners.
General Contractors: F. G. Minter Ltd.

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LB47



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B17

Once again, heating by Crane



The Type 'R' sections built into the riser to the platform provide an interesting illustration of the way in which Crane Skirting Heating blends perfectly into its background.

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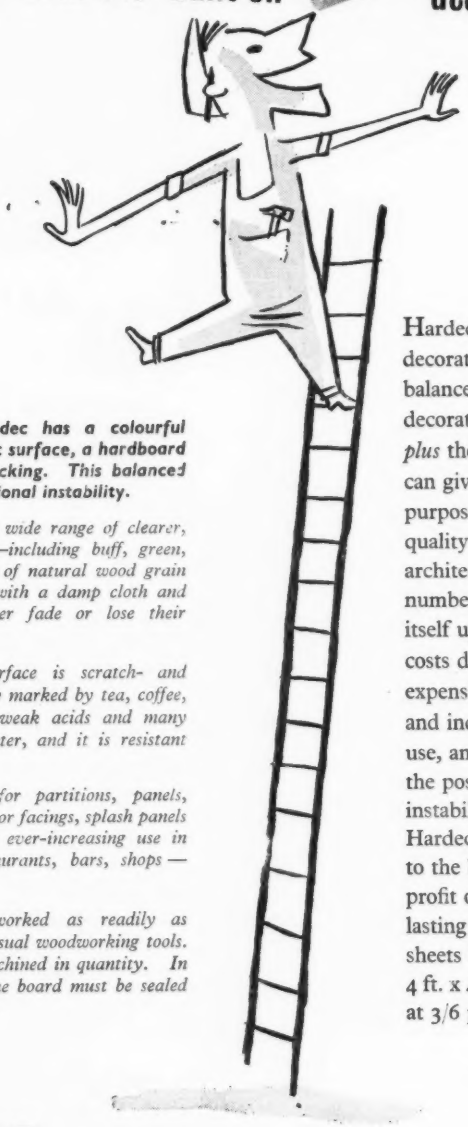
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hardec regd. *Made by the manufacturers of Weyroc man-made timber*

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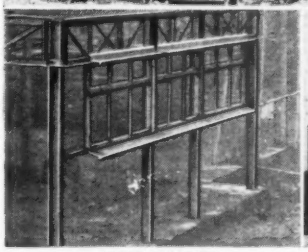
THE THERMAGARD MARK III SYSTEM

It's an Education . . .

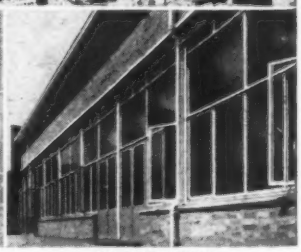


The Thermagard System was originally designed for the construction of primary schools and has now been extended to the construction of multi-storey secondary and grammar schools. This modular form of construction permits considerable flexibility in planning and has resulted in a high degree of simplification and standardisation in the structural components of the building. It halves the time of the Architect and Quantity Surveyor and ensures manufacture and delivery of components to suit requirements at the site.

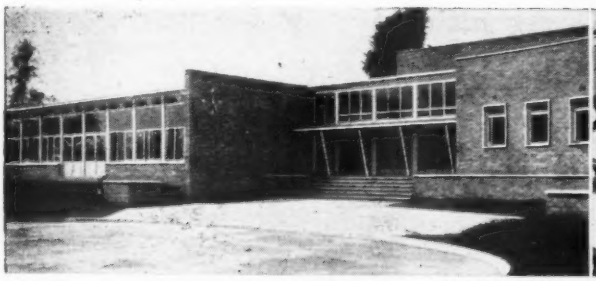




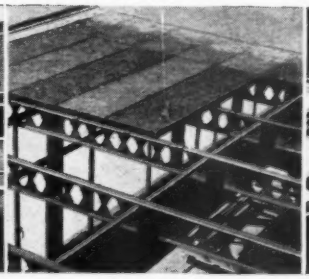
PRESSINGS



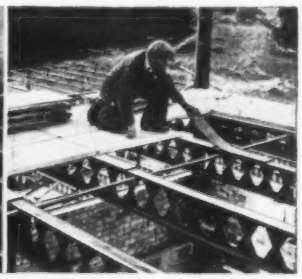
WINDOWS



A main entrance and classroom block

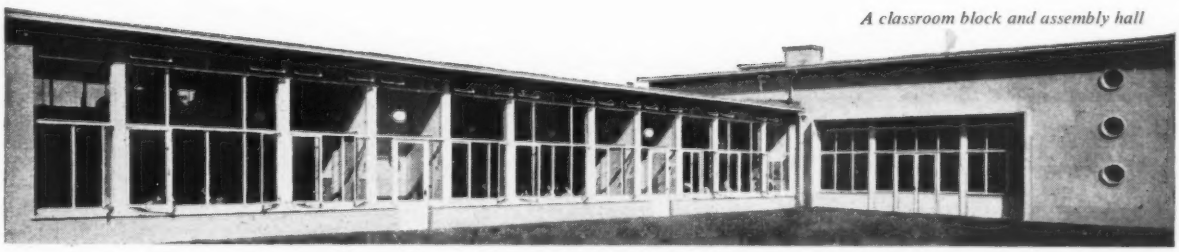


ROOFS



FLOORS AND CEILINGS

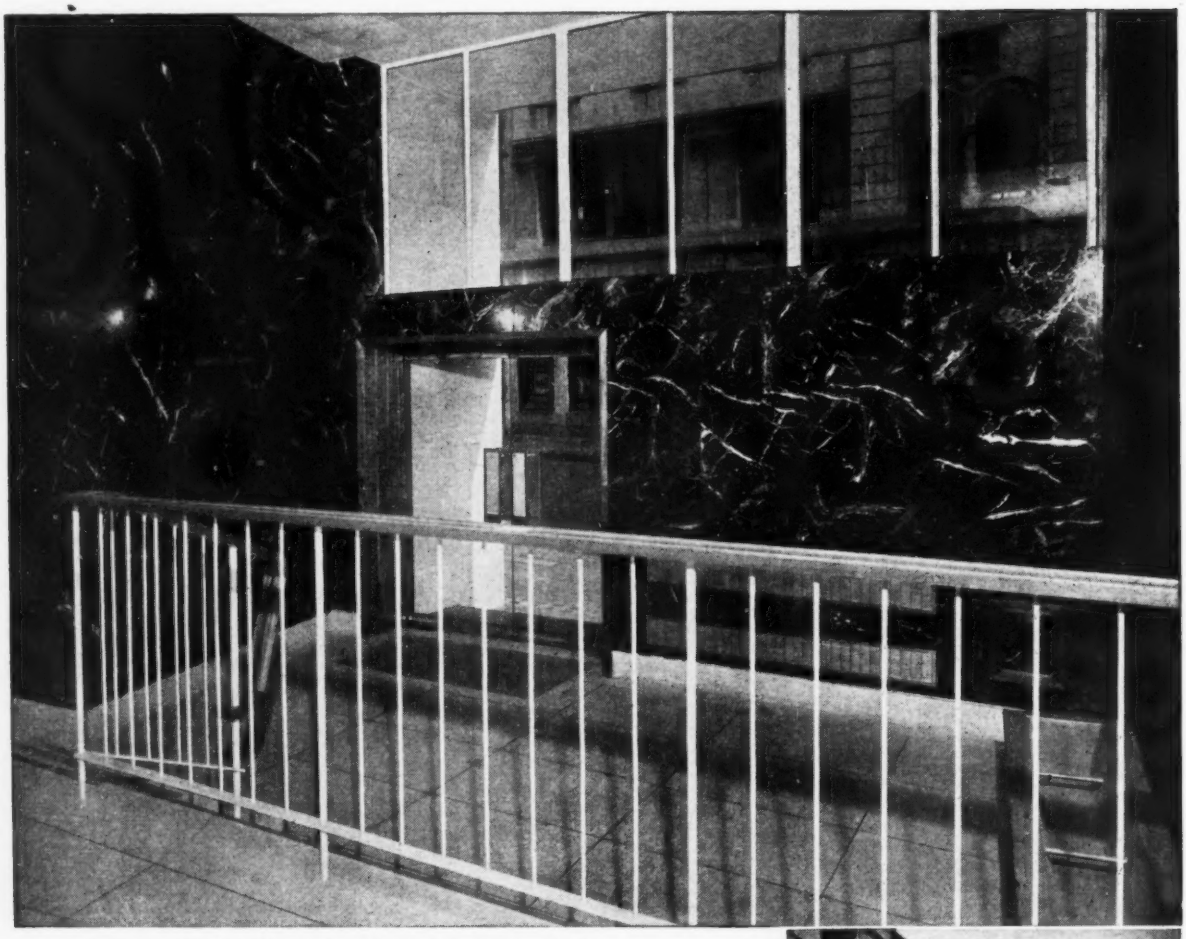
A classroom block and assembly hall



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Entrance Hall and front view of 36/37 Queen Street, E.C.4.
Architect: Edward H. Eames, A.R.I.B.A.

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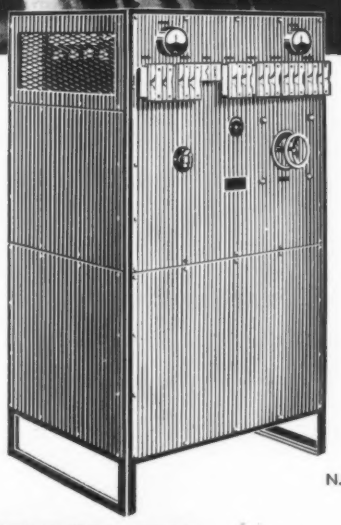
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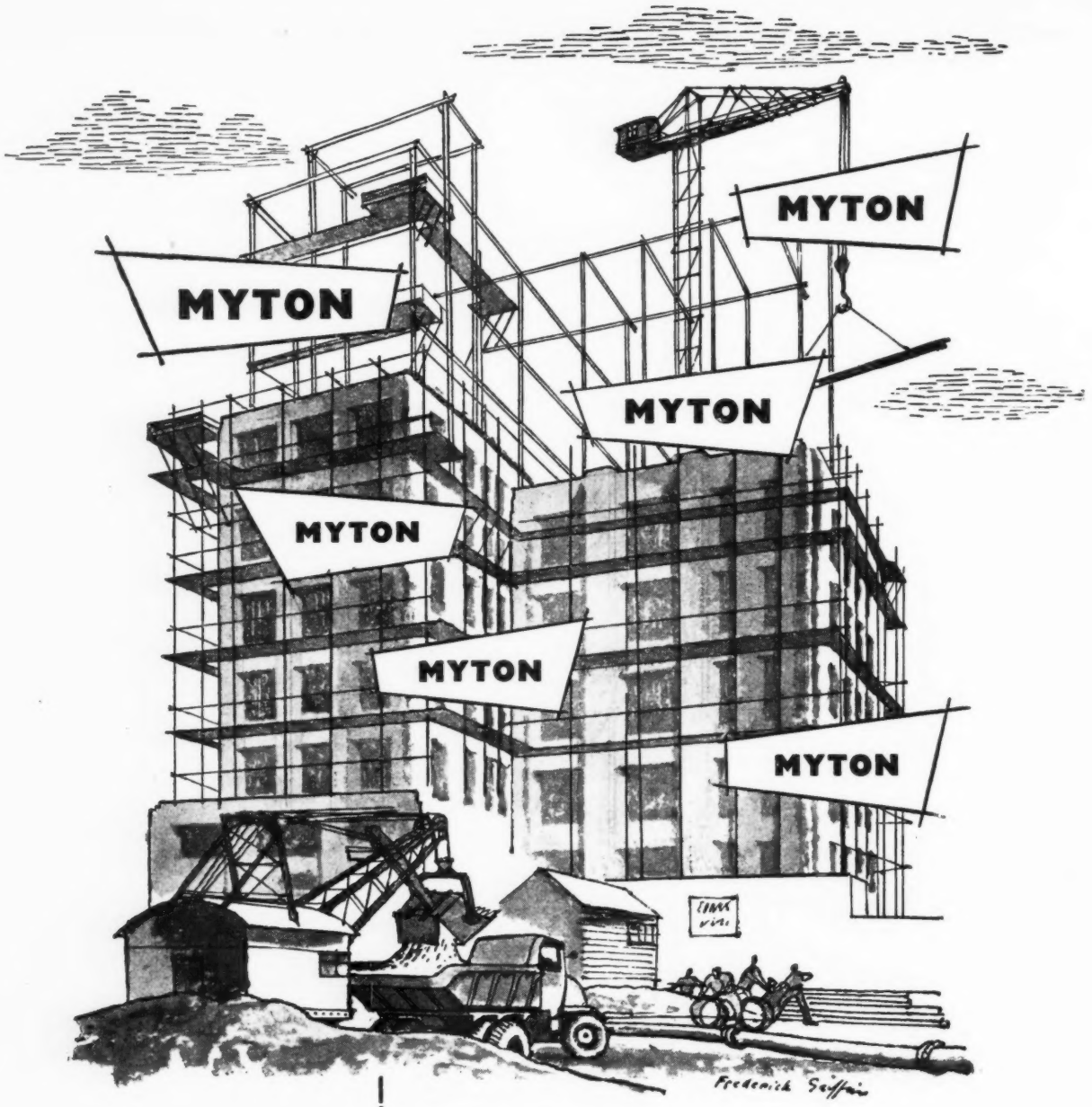
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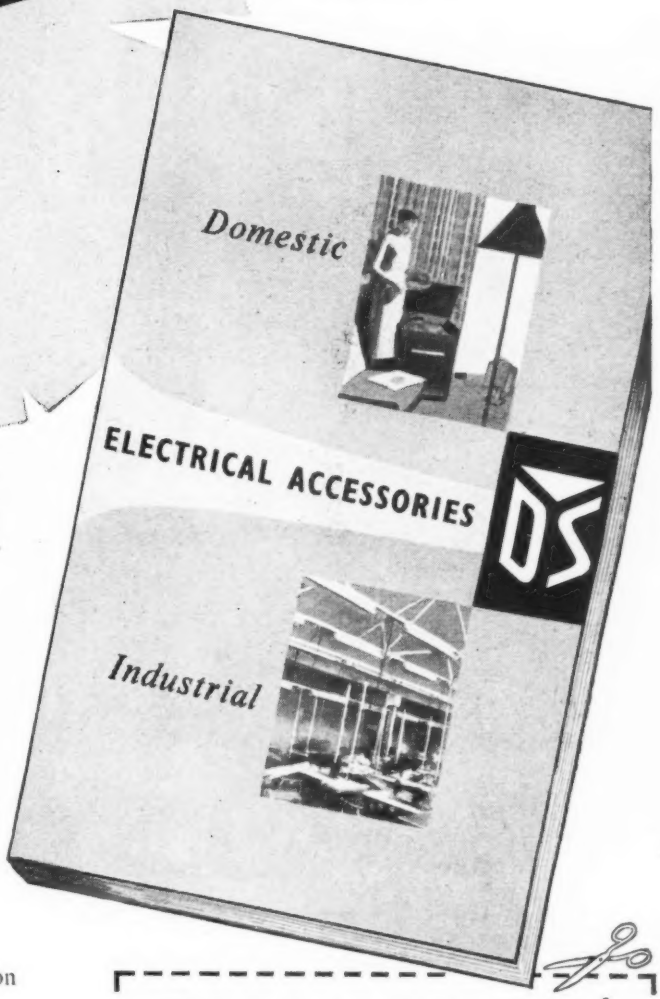
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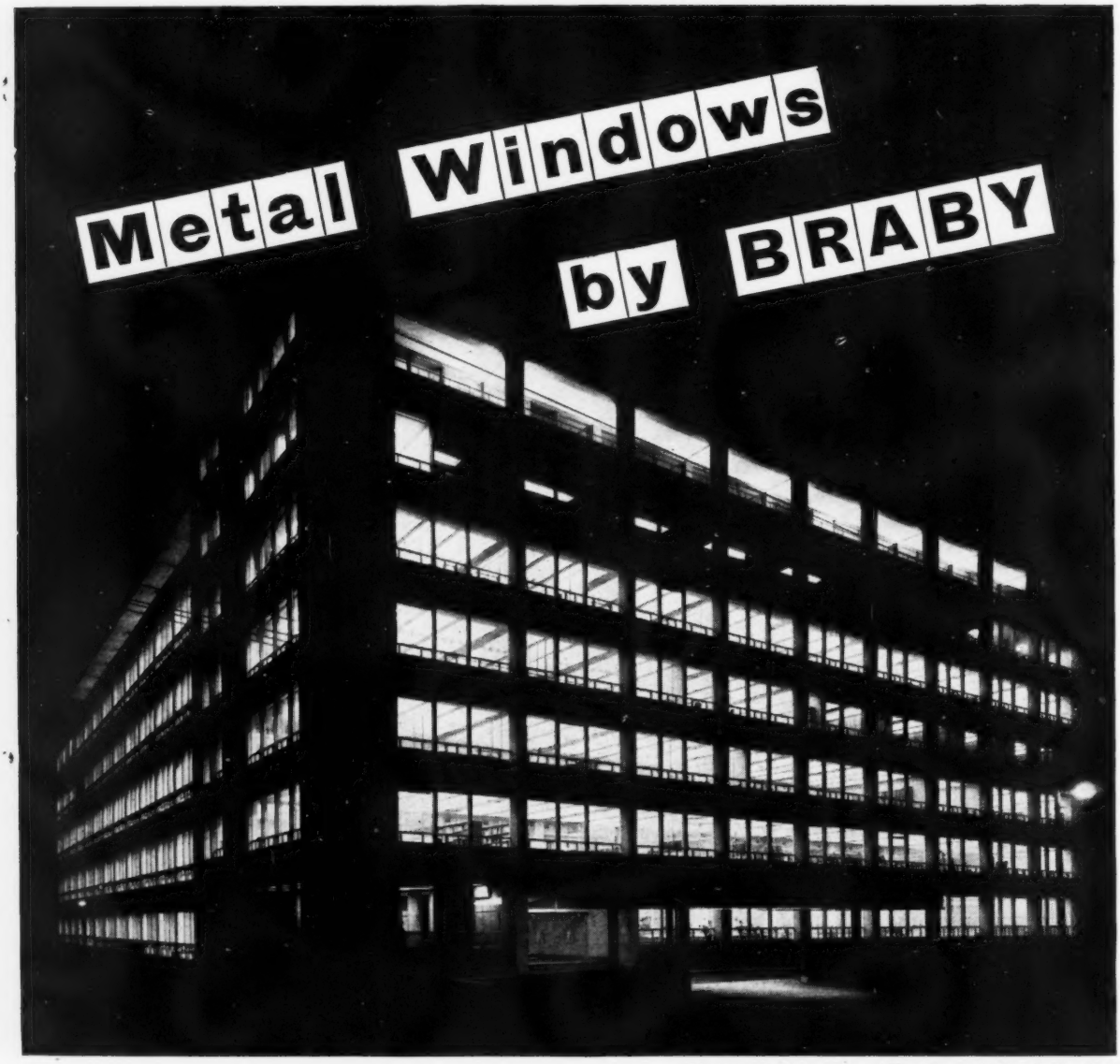
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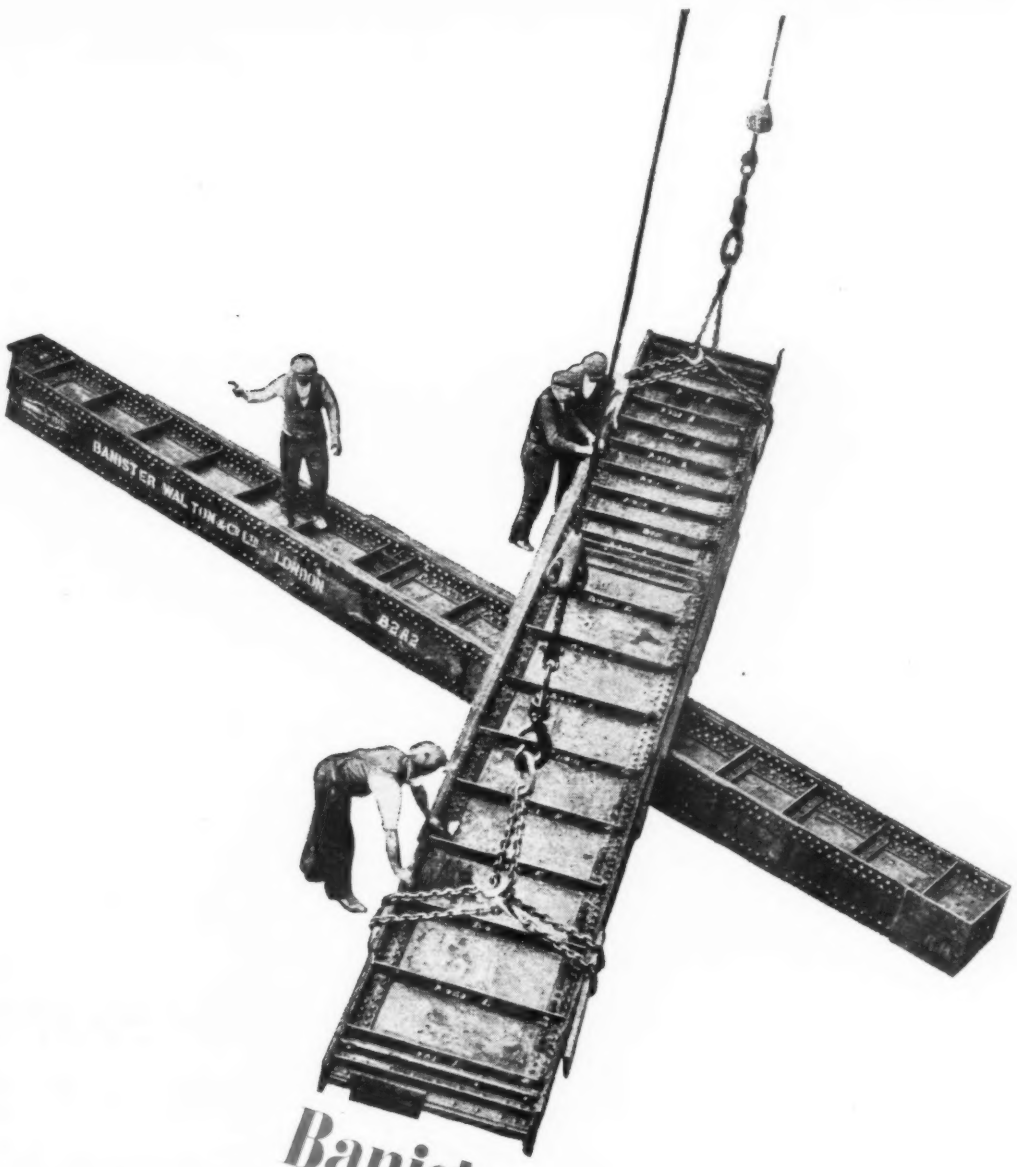
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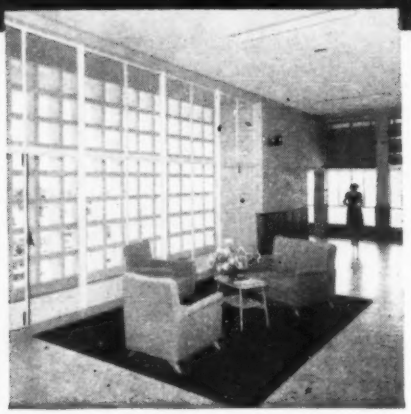
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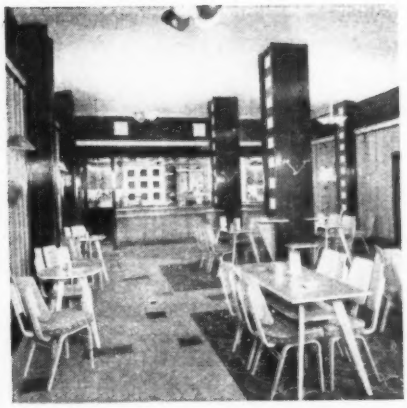
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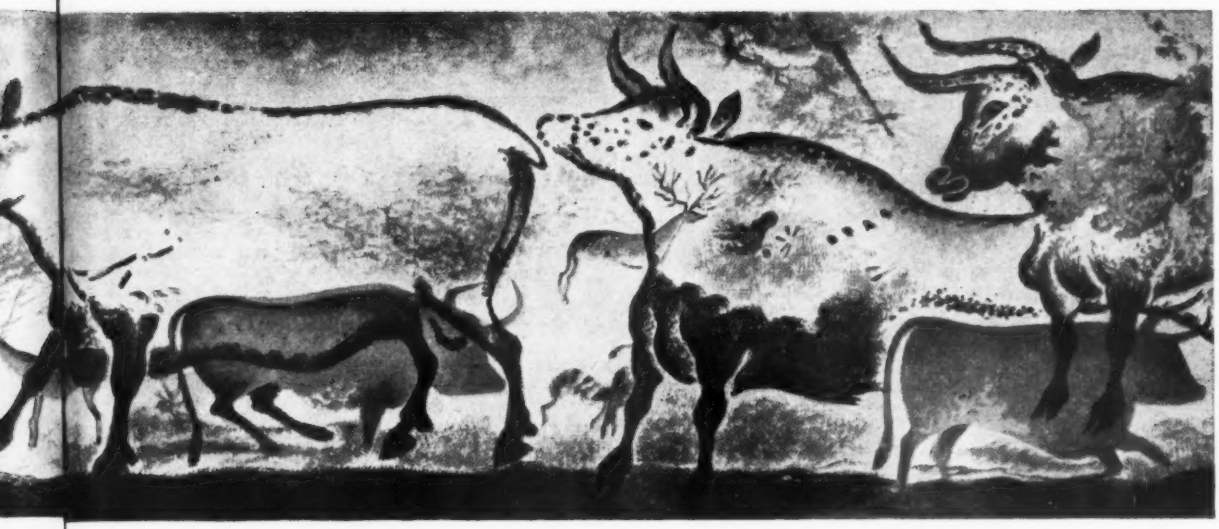




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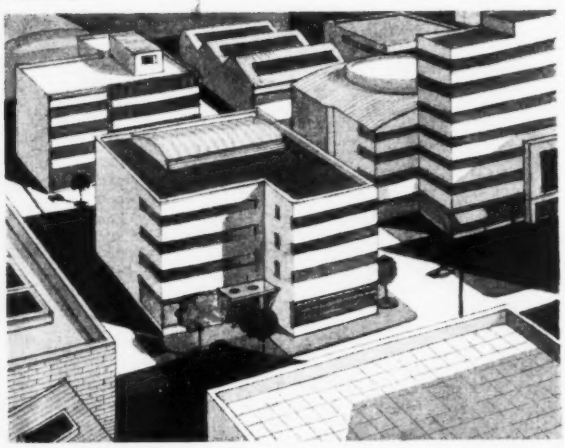
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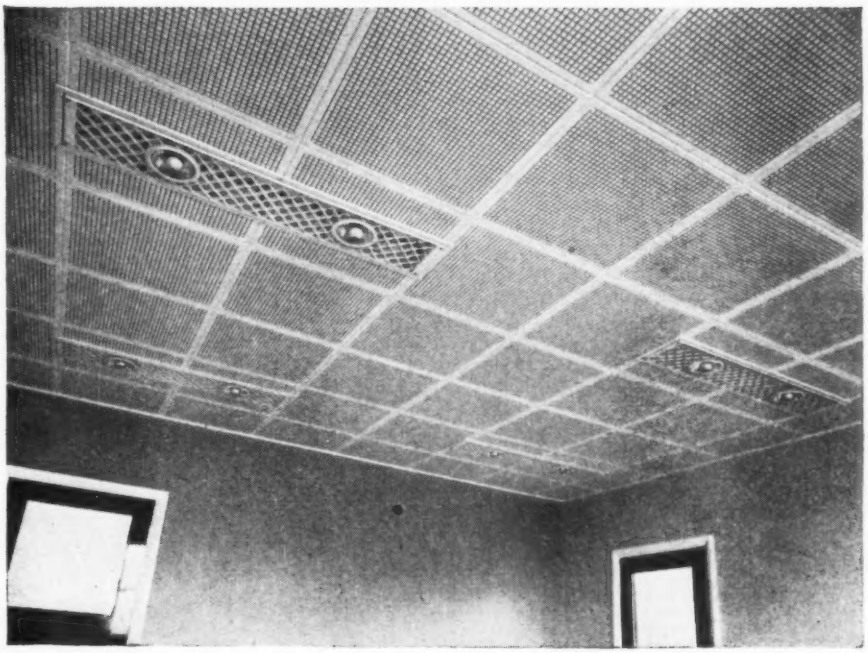
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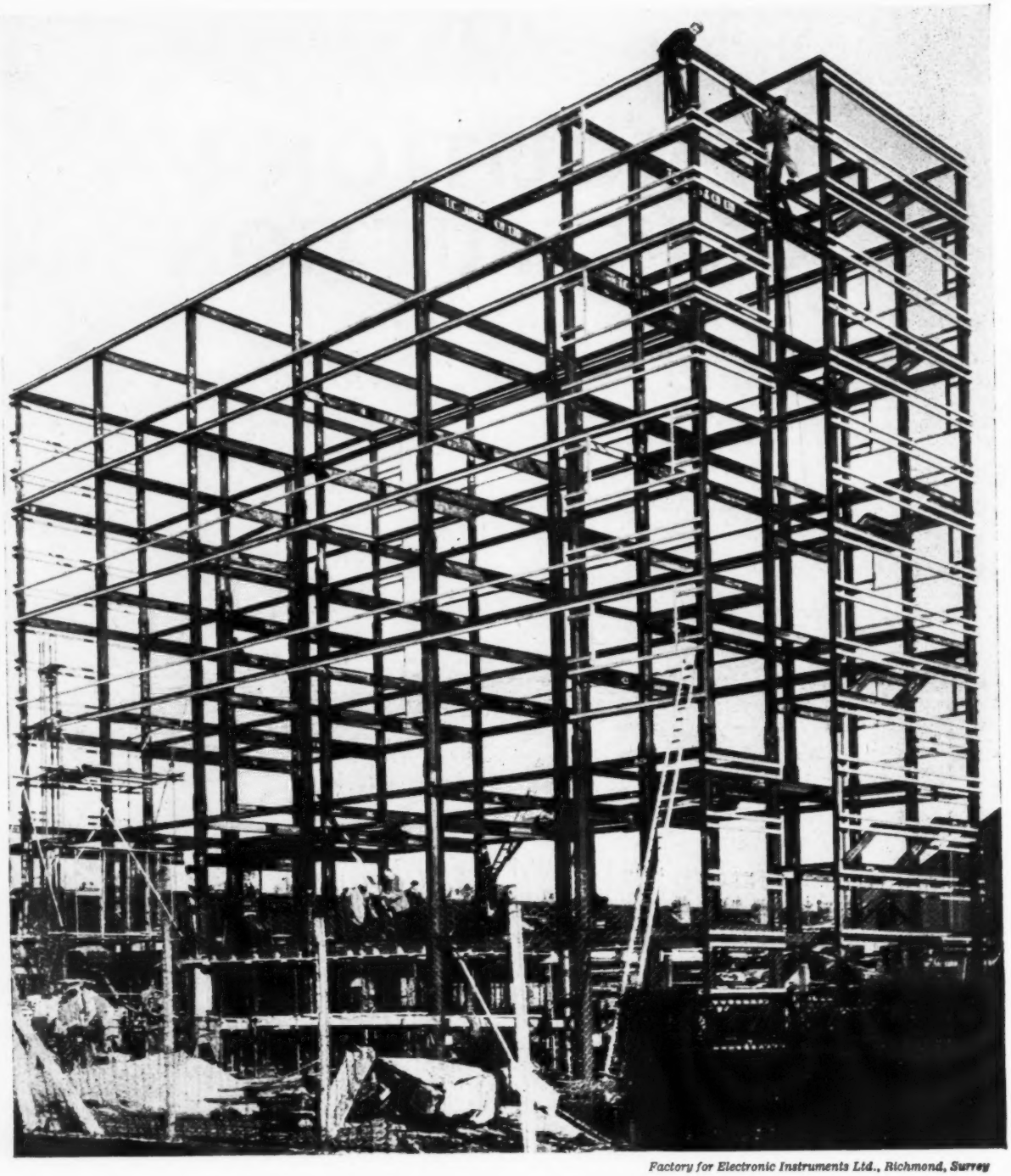
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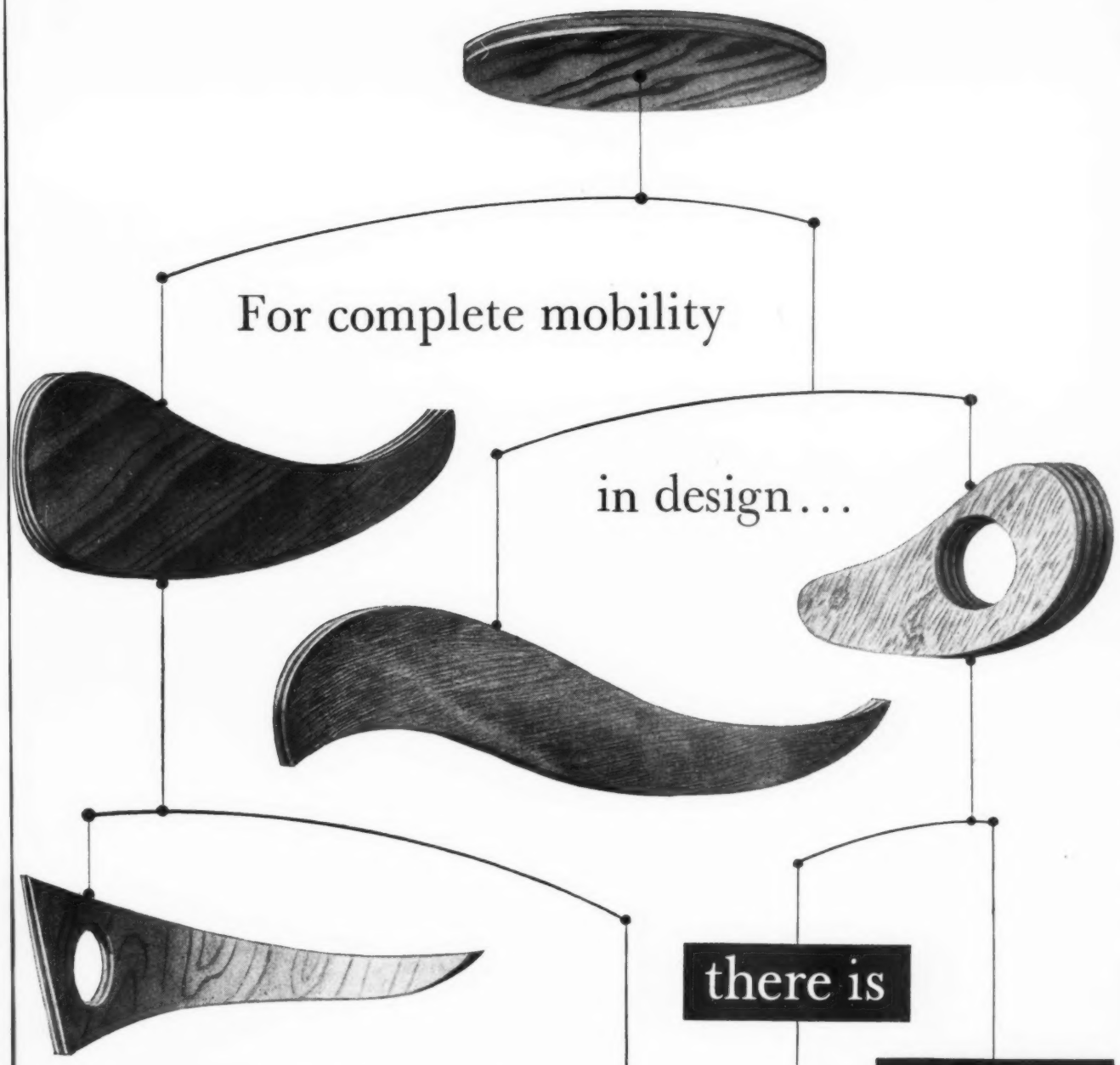
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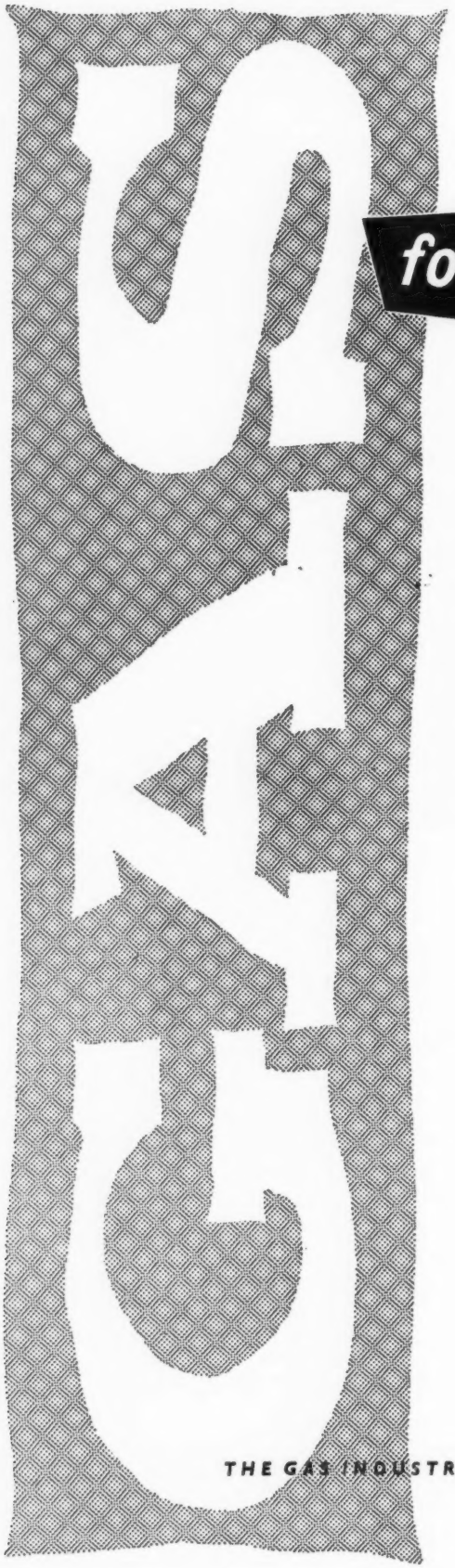
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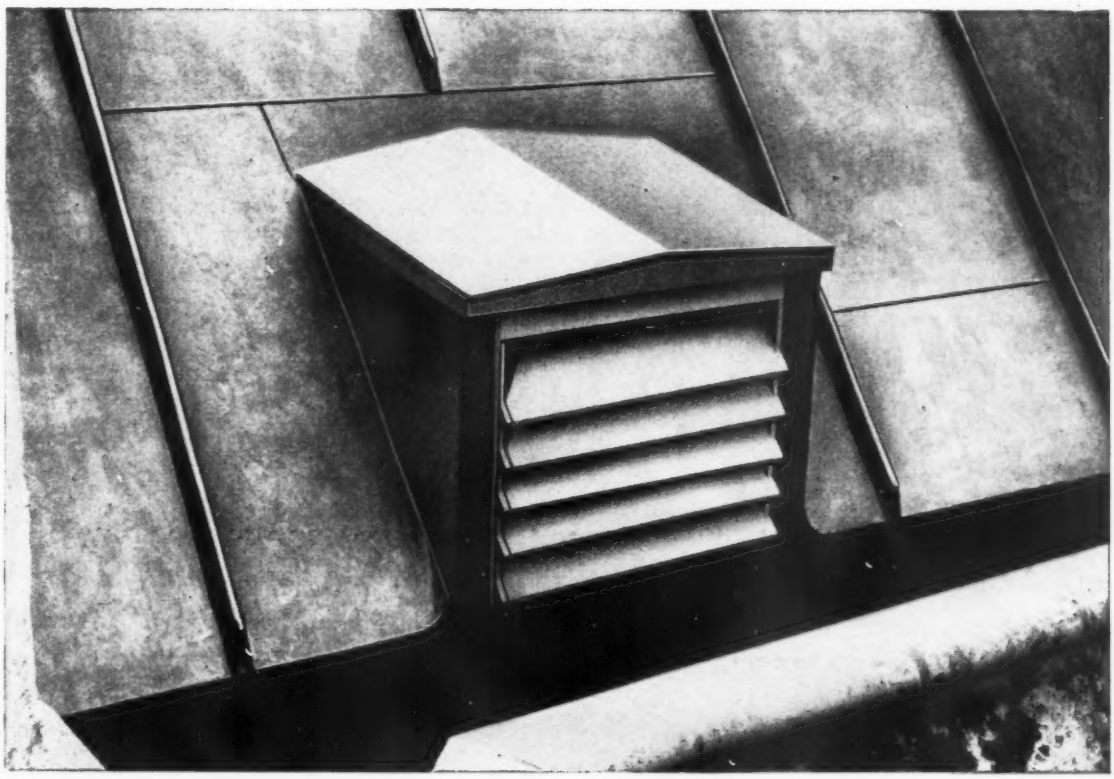
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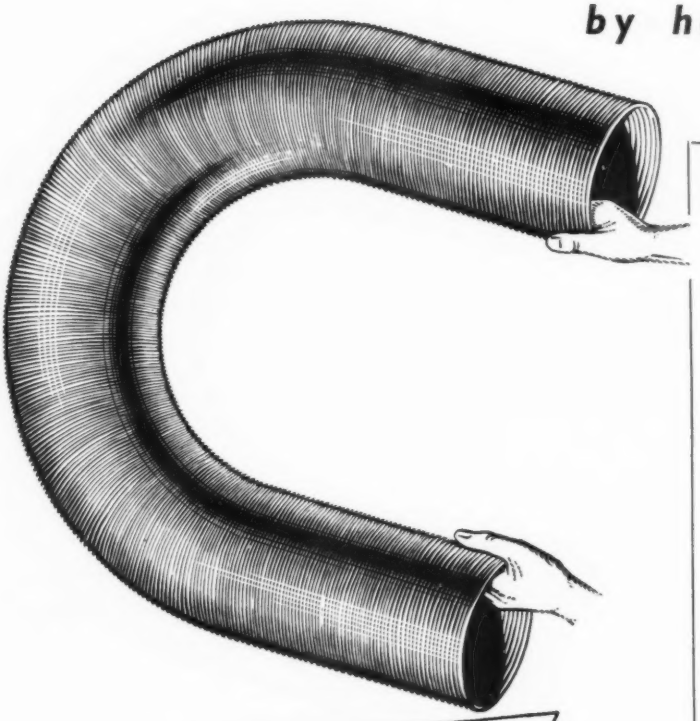
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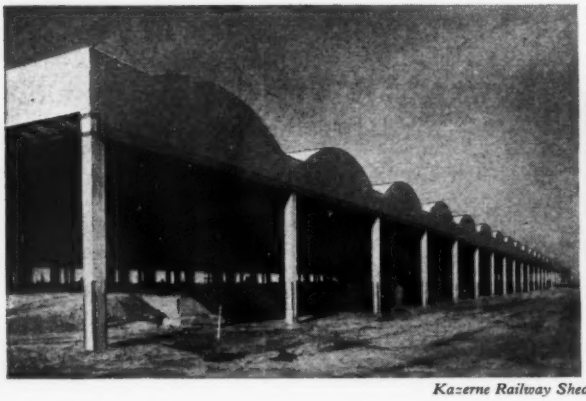
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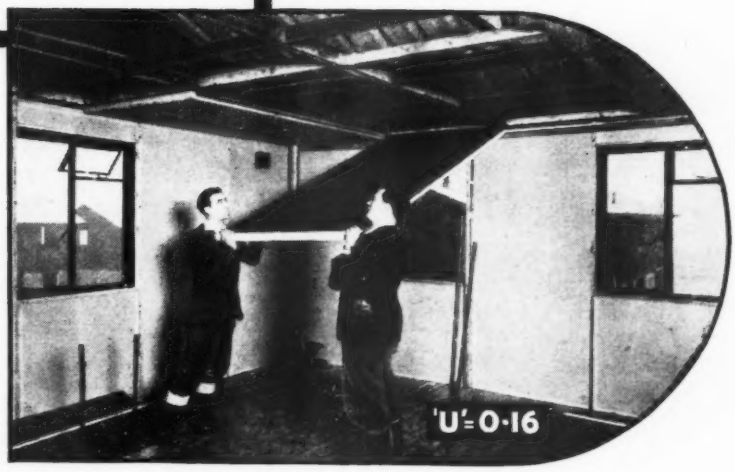
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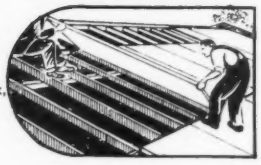


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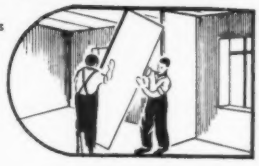


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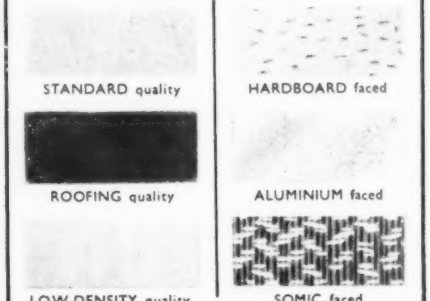
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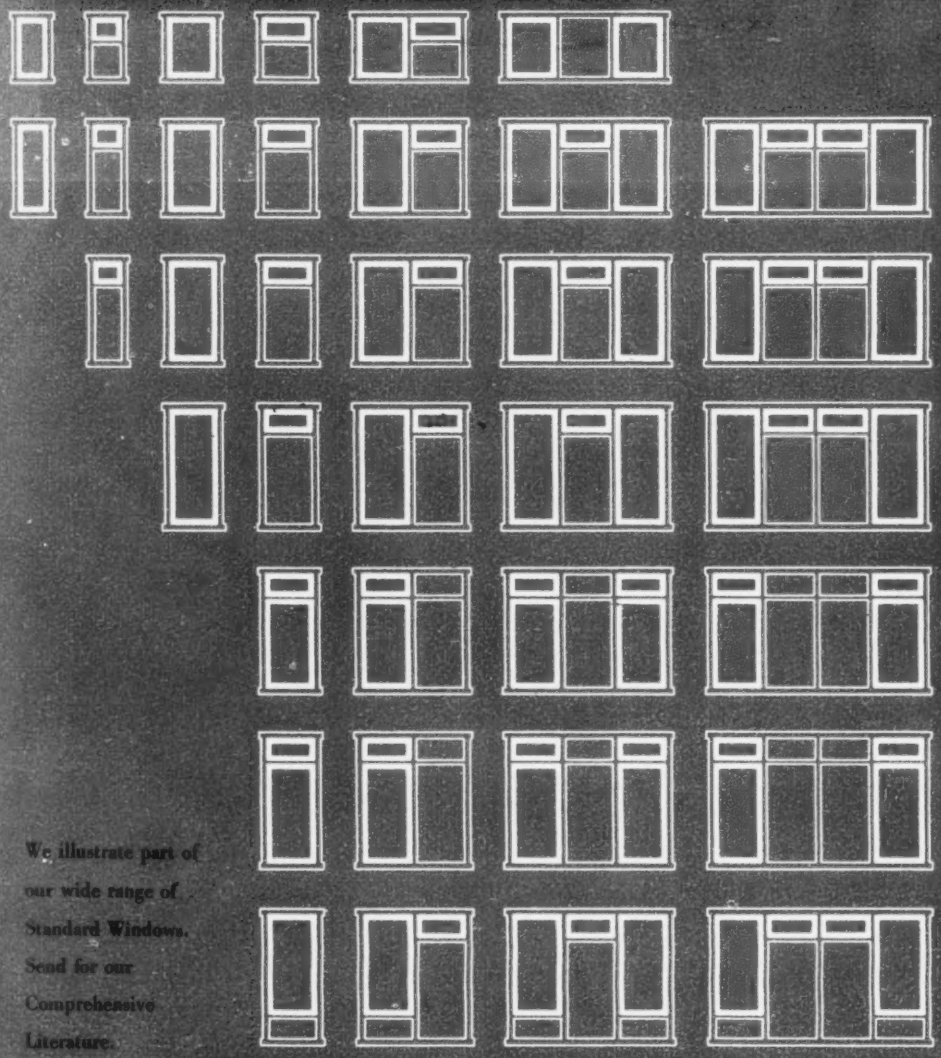
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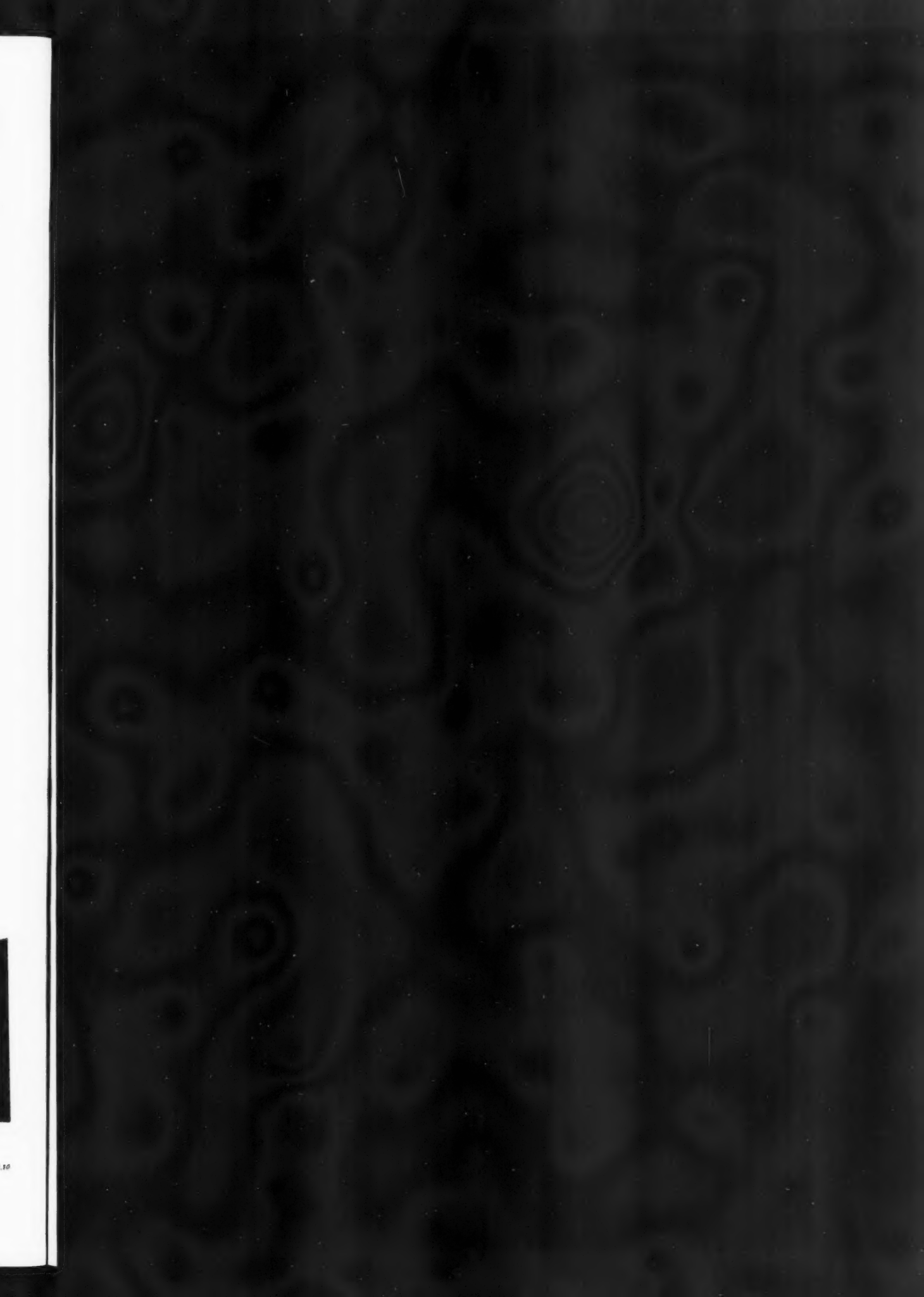
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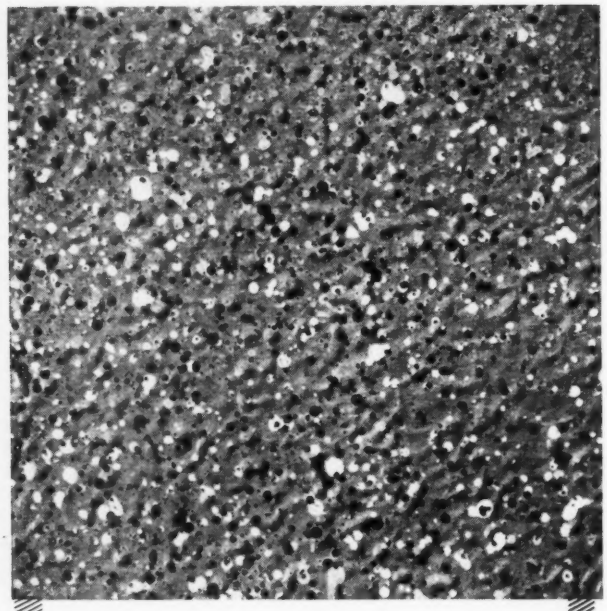
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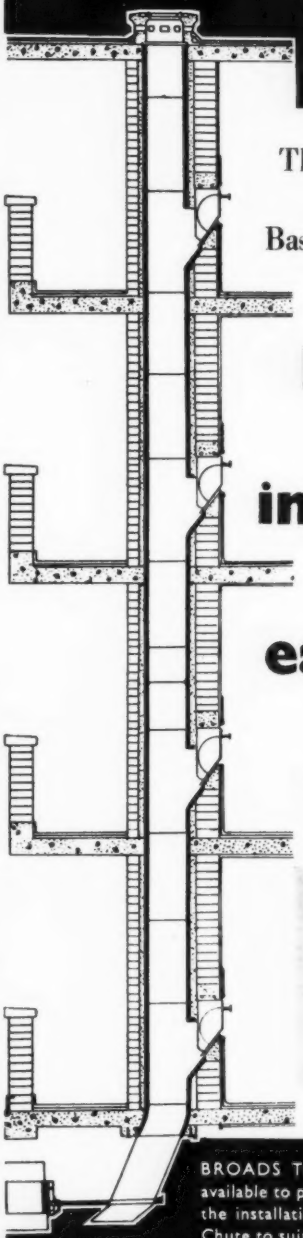
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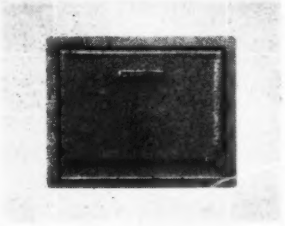
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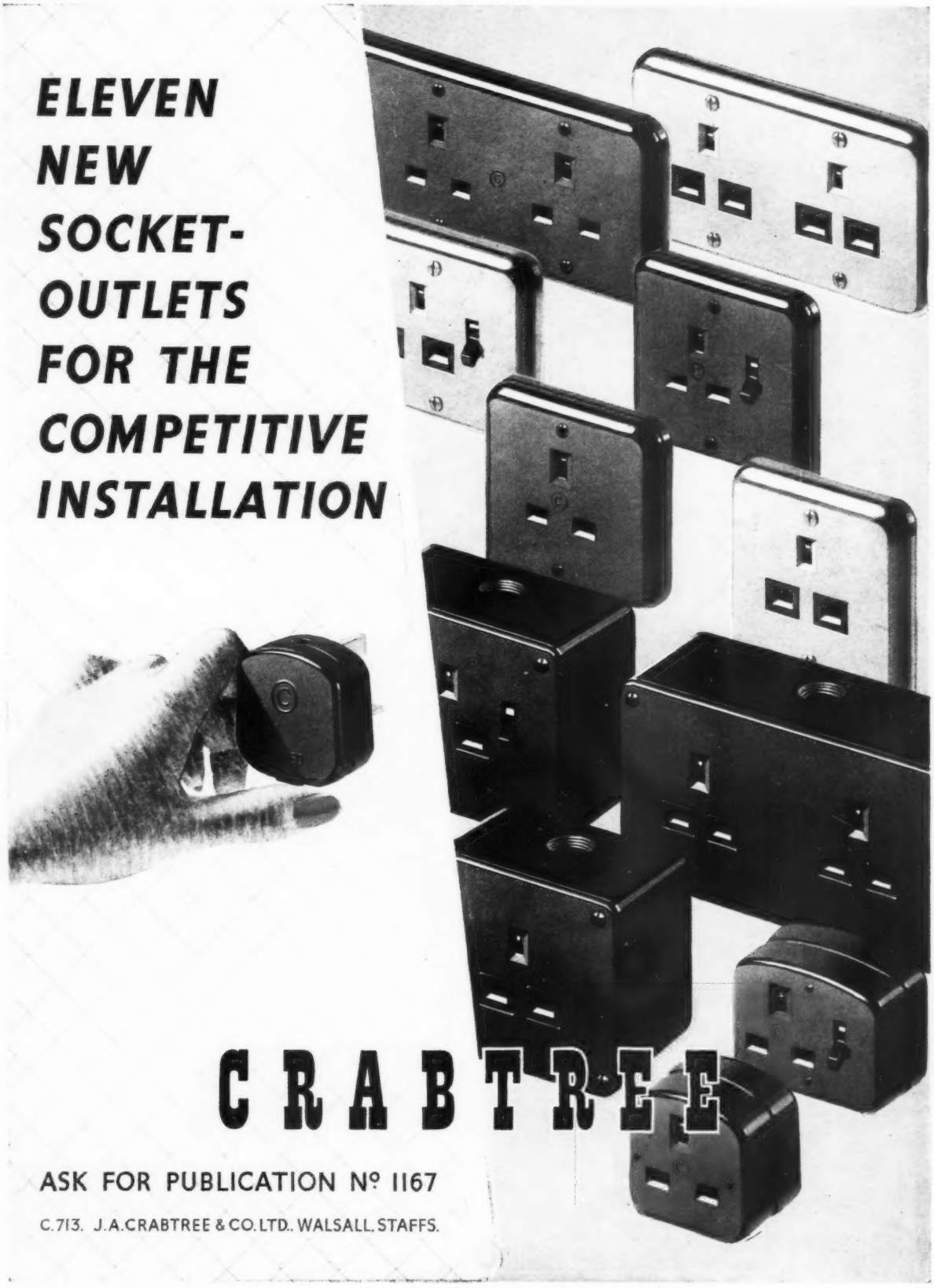
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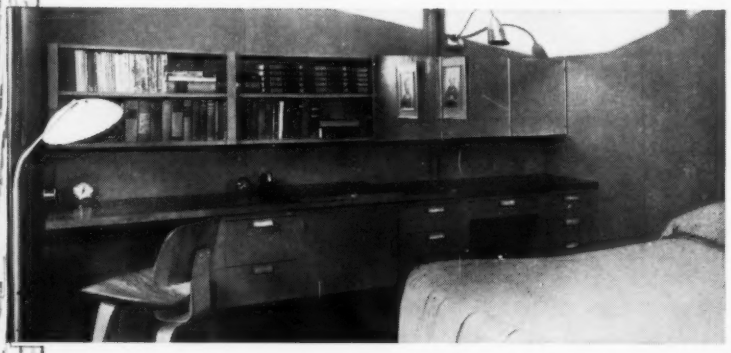
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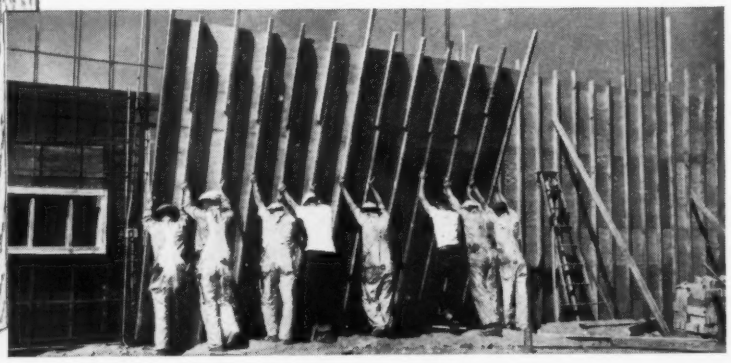
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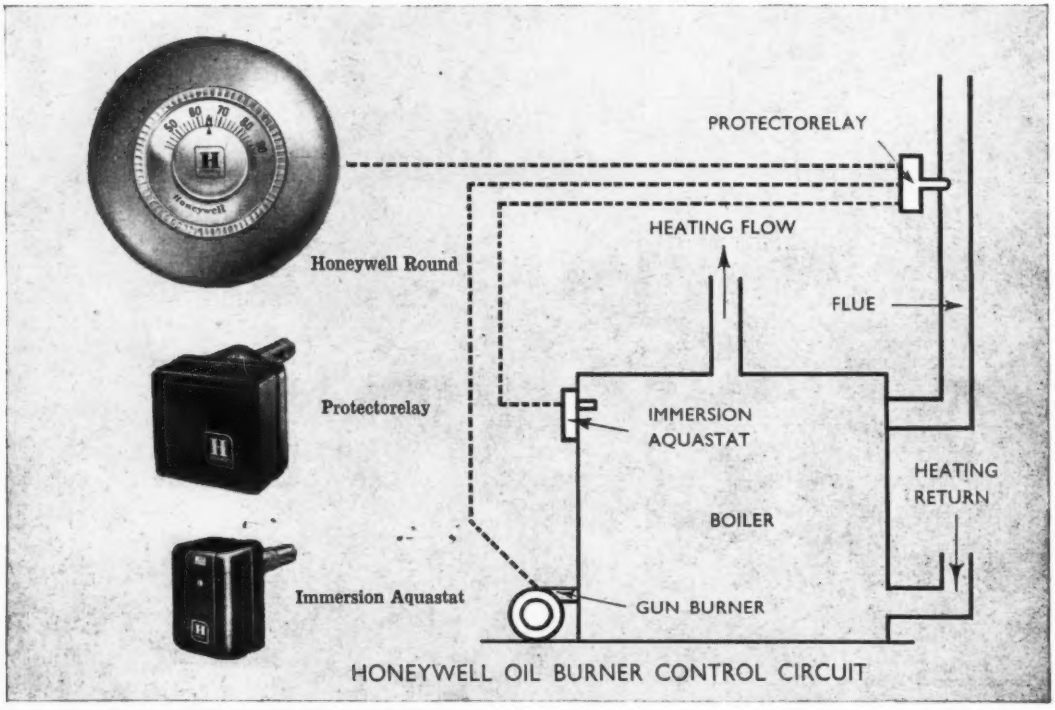


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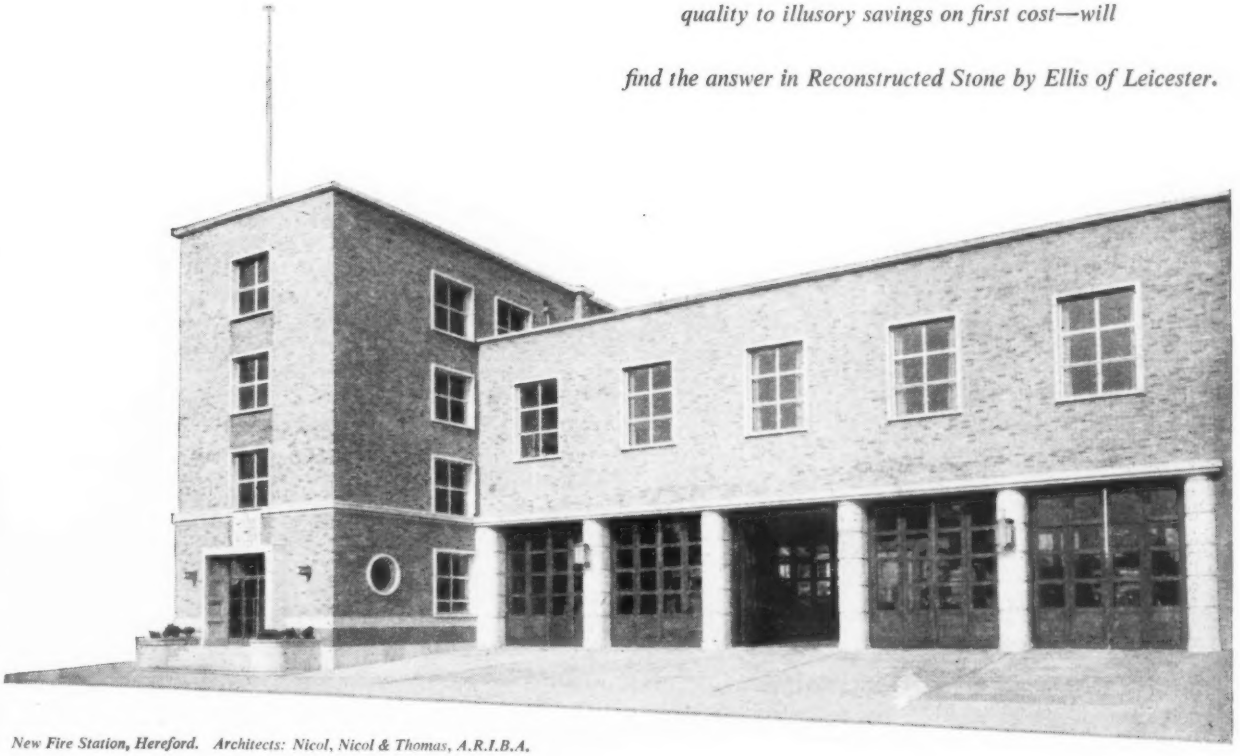
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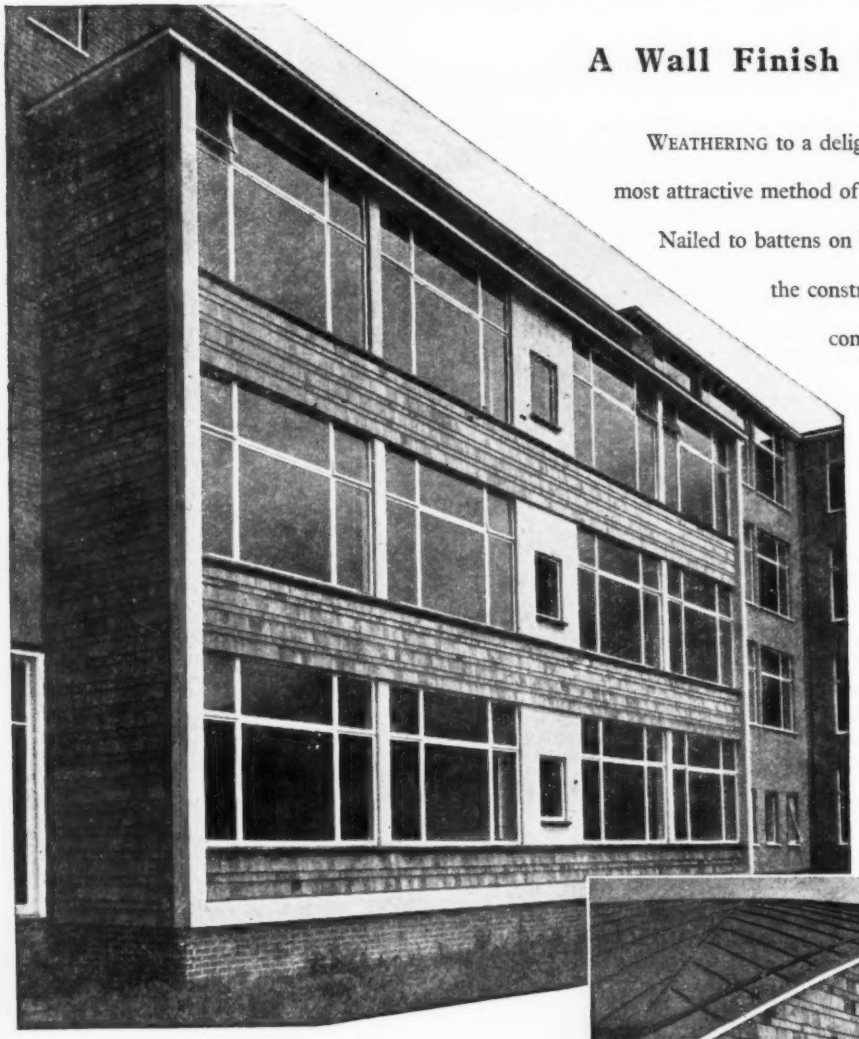
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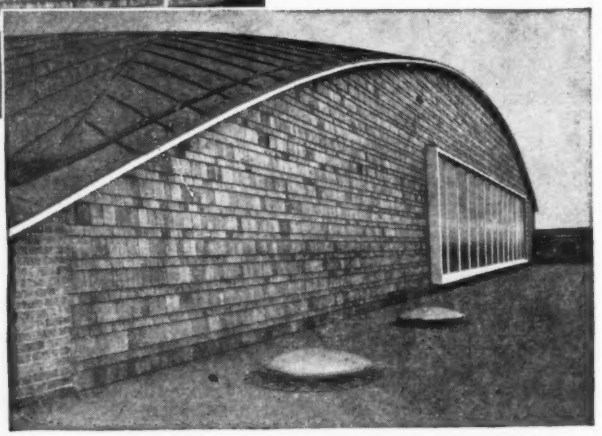


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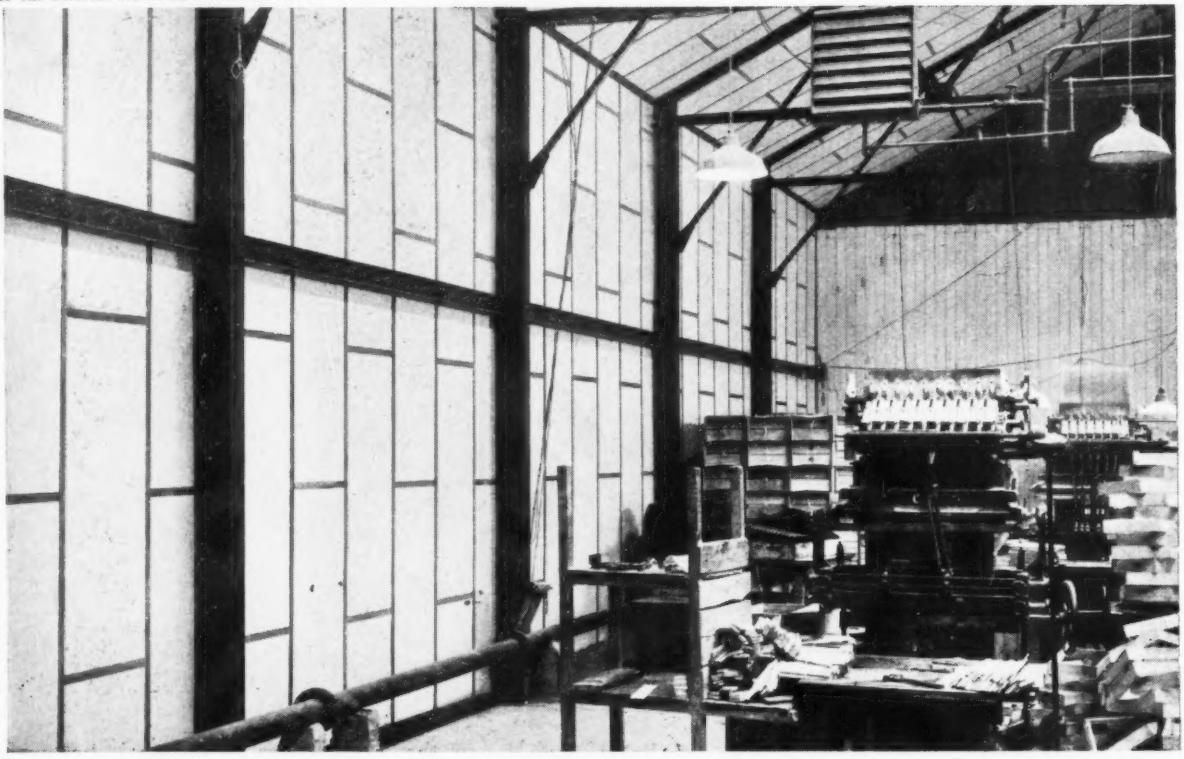
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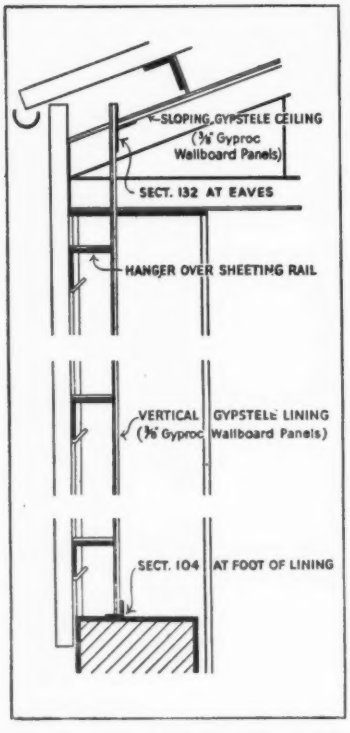
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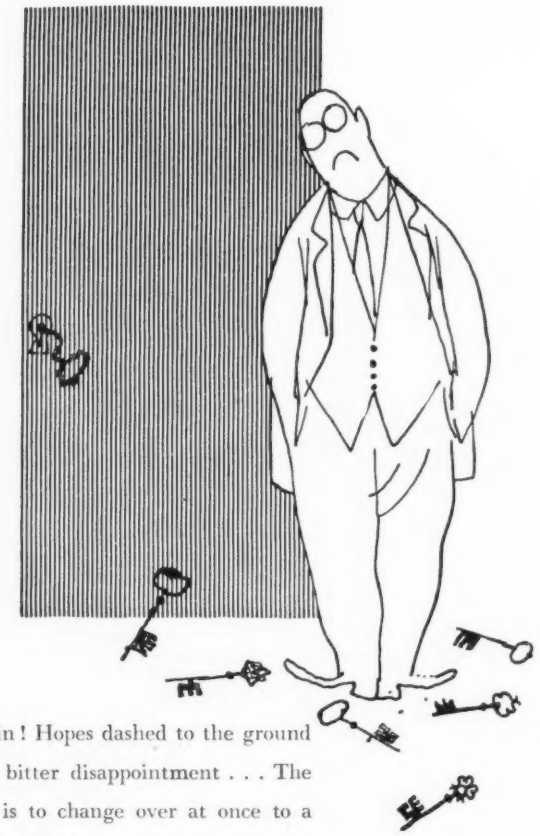
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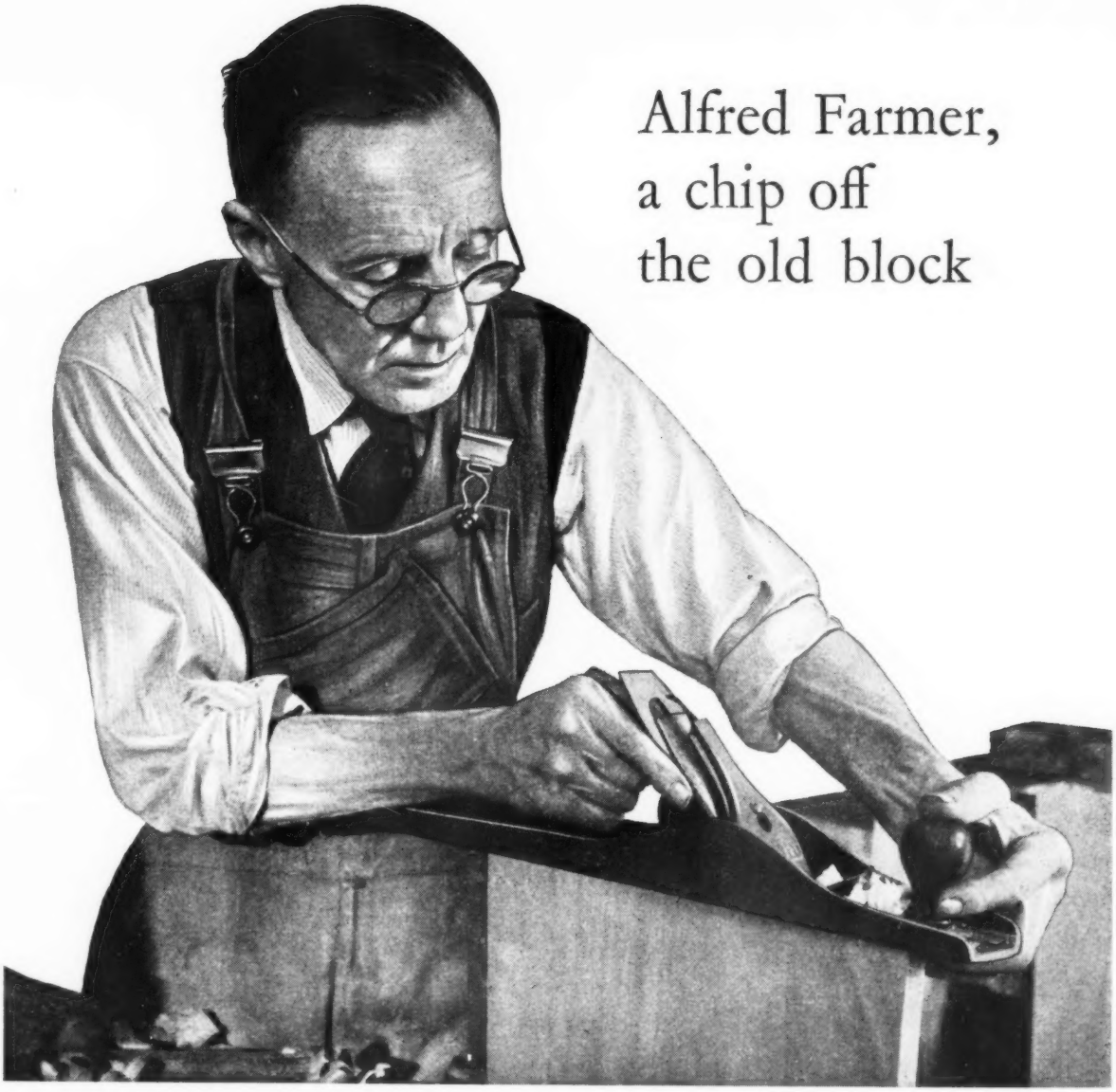
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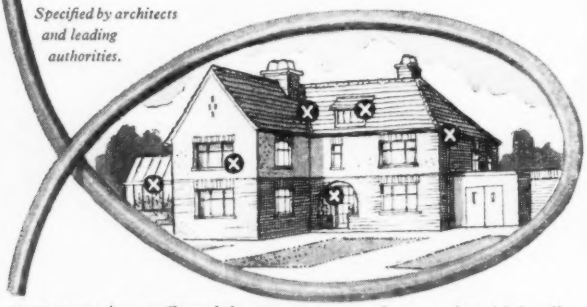
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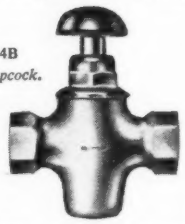


876B
(with the NEW '3D' style button top) ½" Pillarcock. 3" nose and tail.

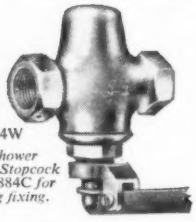
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WP16



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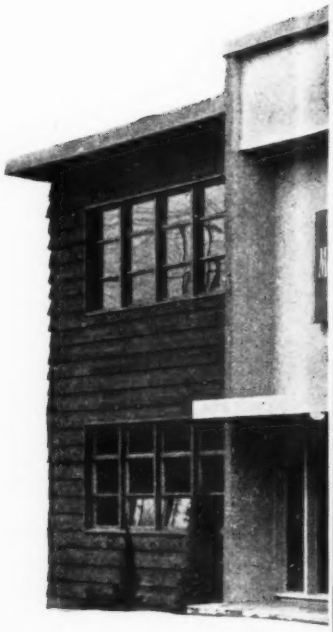
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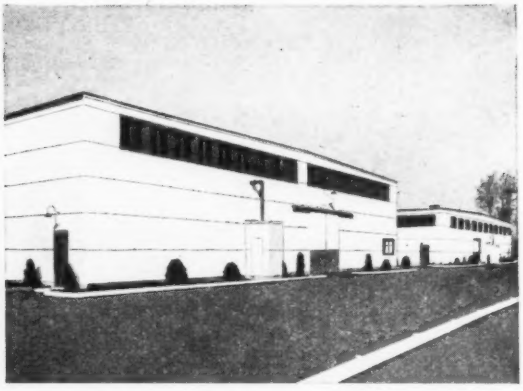
TRENDS IN TIMBER CONSTRUCTION

Gives Flexibility of Design for **INDUSTRIAL**

Transport and parking problems, together with the high cost of central property, have brought the smaller manufacturer to semi-residential and development areas on the fringes of the big cities. Light industry needs inexpensive, single-storey buildings with plenty of floor space. Timbers from British Columbia meet that requirement effectually by providing sound up-to-date accommodation at the lowest economic figure. Builders are discovering, too, that initial savings in the building of timber structures easily cover the cost of sprinkler protection.



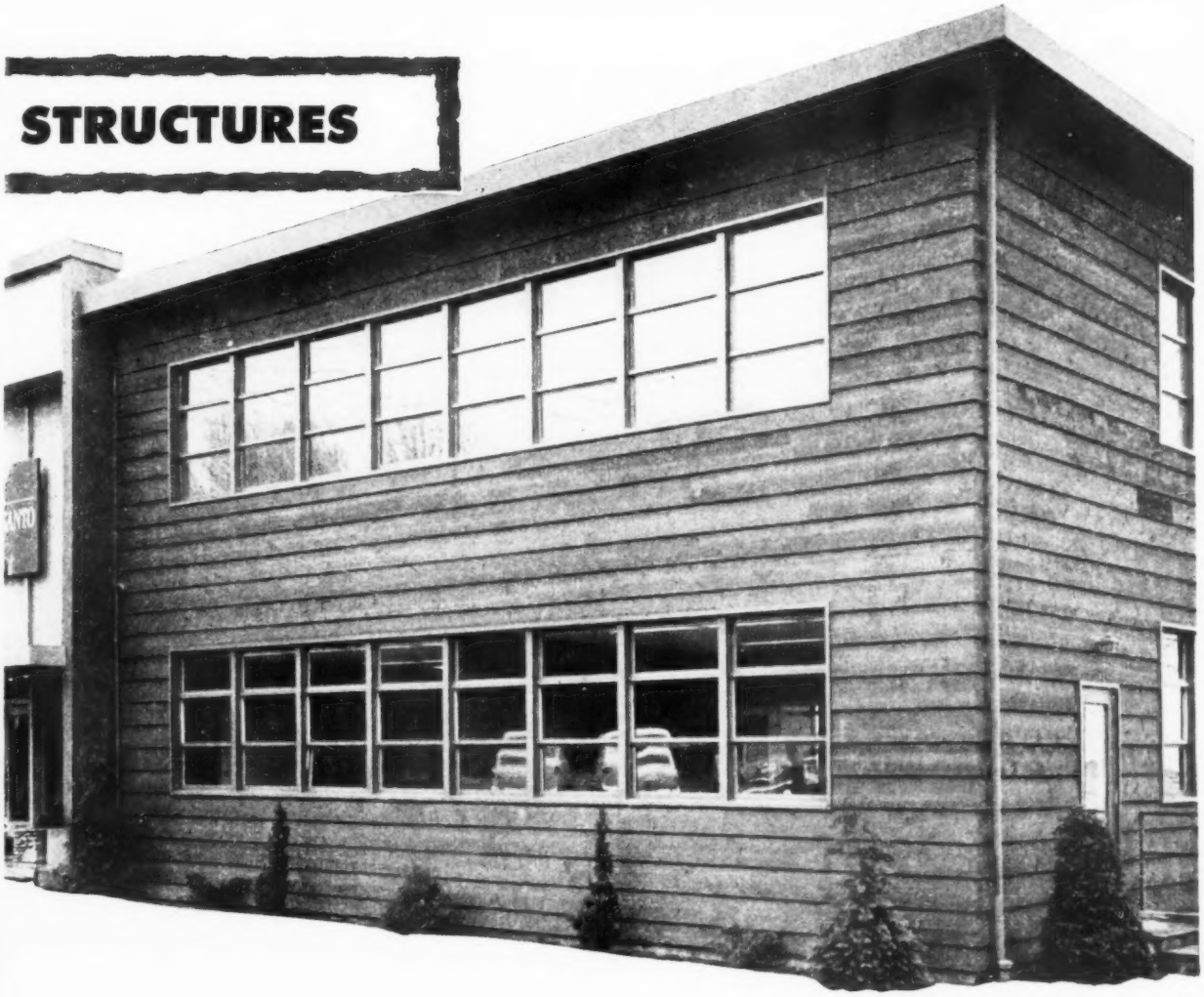




Modern methods of handling materials have started a trend towards single-storey warehouse buildings. Timber construction fulfils all requirements for structures of this type at reasonable cost.

Timber cladding applied in two planes adds distinction to this contemporary office and factory. Buildings of this style owe their appeal to the flexibility of timber construction and their ability to fit perfectly into suburban and rural surroundings.

STRUCTURES



Agreeable design and working efficiency, as well as a substantial saving in initial outlay, were realised by employing timber in the construction of this combined office and plant.



Timber construction accords well with the informal design of this fertiliser plant. Durable timber cladding is easy and economical to maintain.



FREE—18 page illustrated booklet "Trends in Timber Construction" — a comprehensive, pictorial study of timber's wide range of uses in present day structures of all types. Write to:—

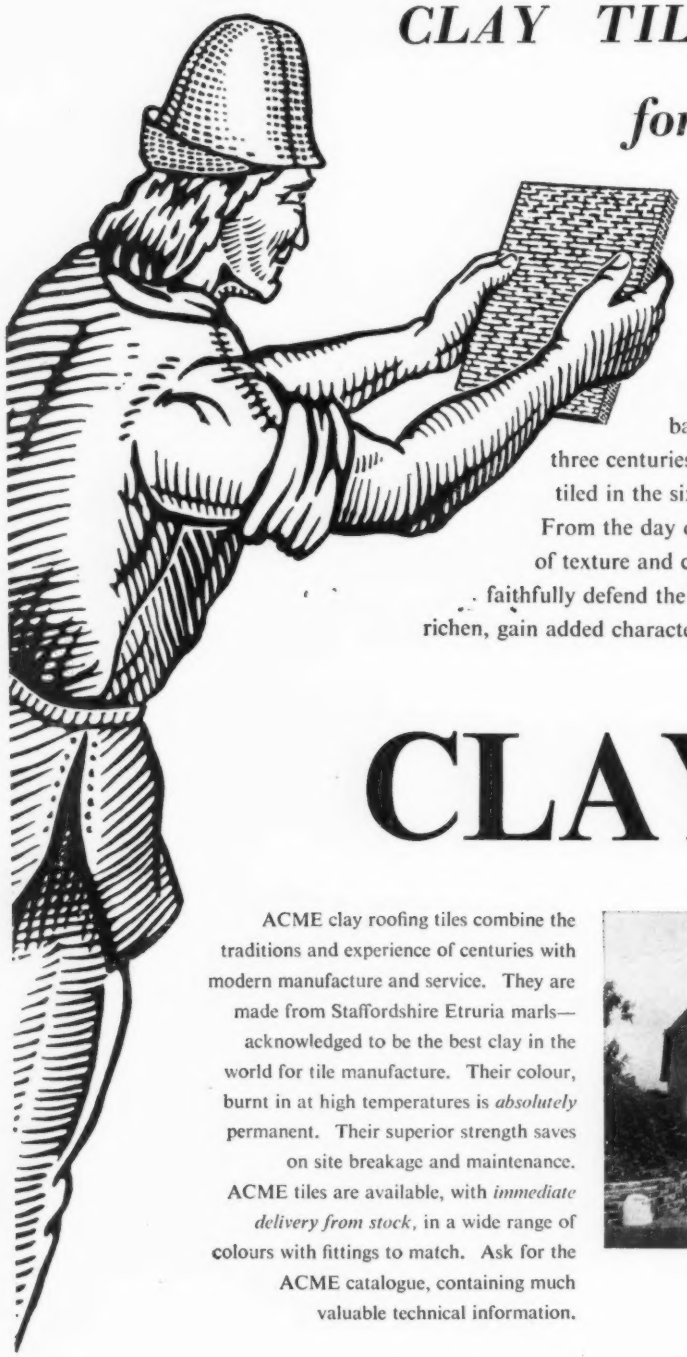
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CLAY TILES —

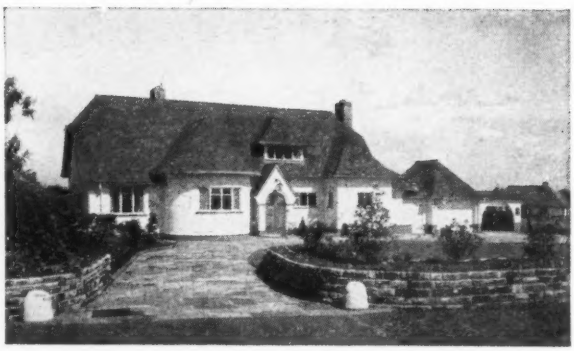
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England's roof . . .

The family name Tyler was firmly established and the twin crafts of tile-making and tile-laying traditional as far back as the sixteenth century. Roofs tiled three centuries before were then maturing just as roofs tiled in the sixteenth century are still maturing to-day. From the day of laying, clay tiles hold a natural beauty of texture and colour, and throughout the years, as they faithfully defend the house beneath, they mellow still further, richen, gain added character, making time and weather their friend.

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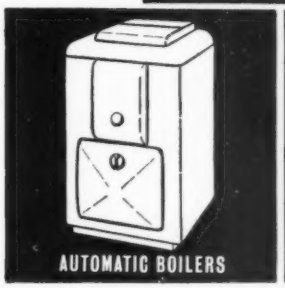
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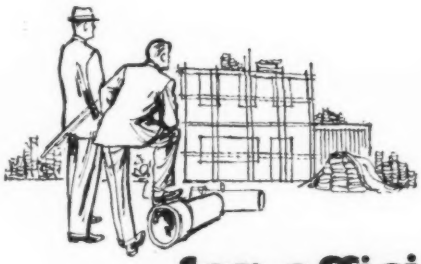




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C.U.C. Training Courses are held in London and Glasgow for the staffs of builders and local authorities. Instruction in installation is given by experts. Special one-day courses are held in Technical Colleges in various parts of the country for those who cannot attend the courses in London or Glasgow. For full information about all C.U.C. Training Courses, write to the C.U.C. at the address below.

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in many major cities display the latest appliances, have leaflets, and can give you expert information. See their addresses below.

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CAMBRIDGE: 24 St. Andrew's Street.
CARDIFF: 9 Castle Street.
GLASGOW: 341 Bath Street.
LEEDS: 99 Albion Street.
LONDON: The Building Centre, 26 Store Street, W.C.1.
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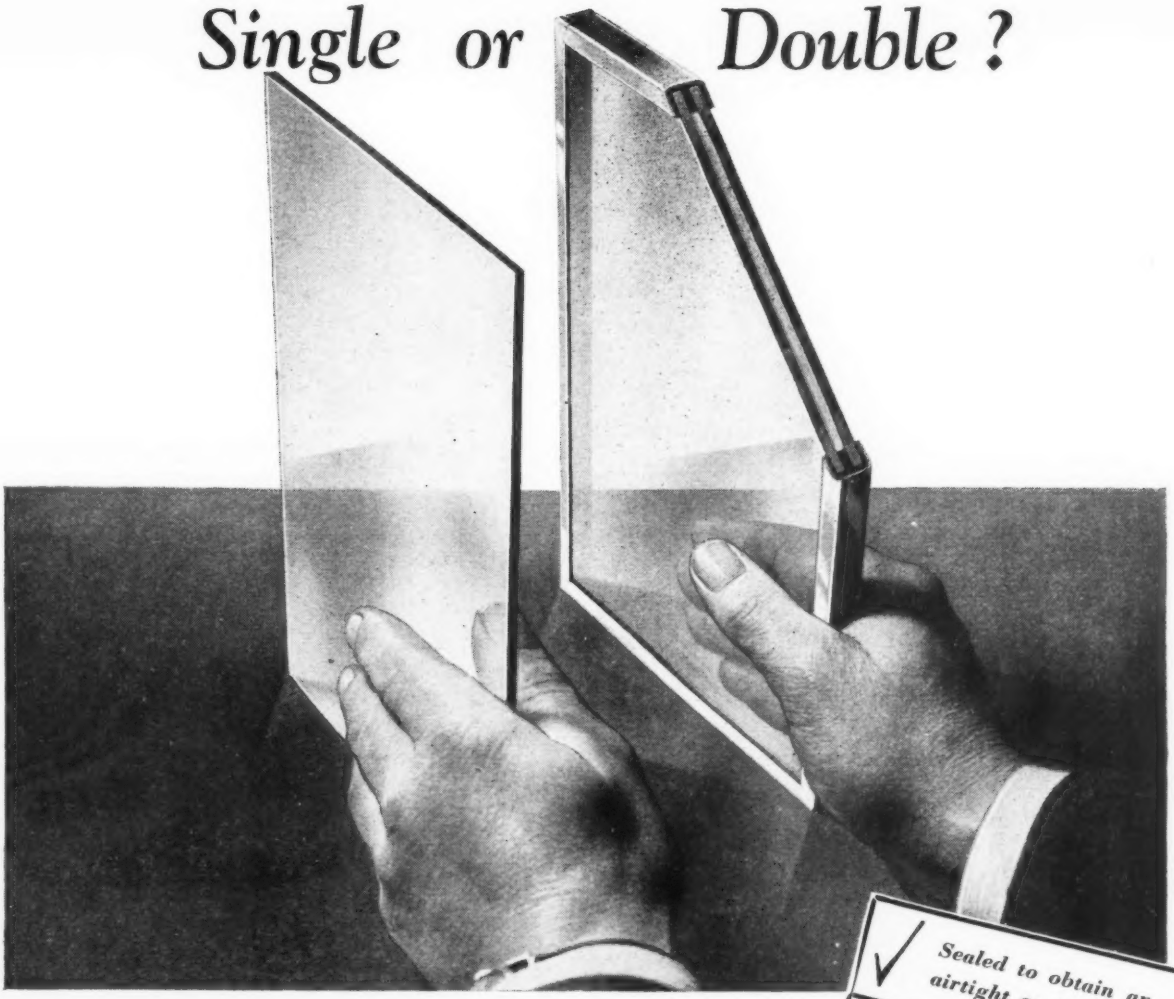
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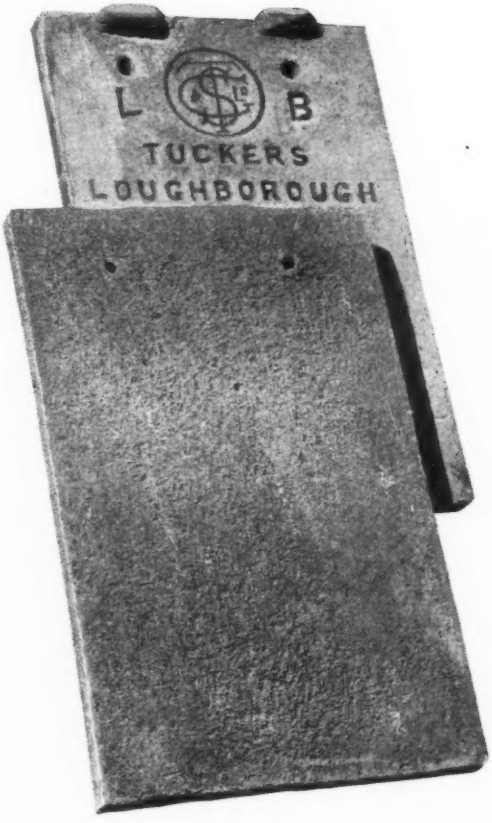
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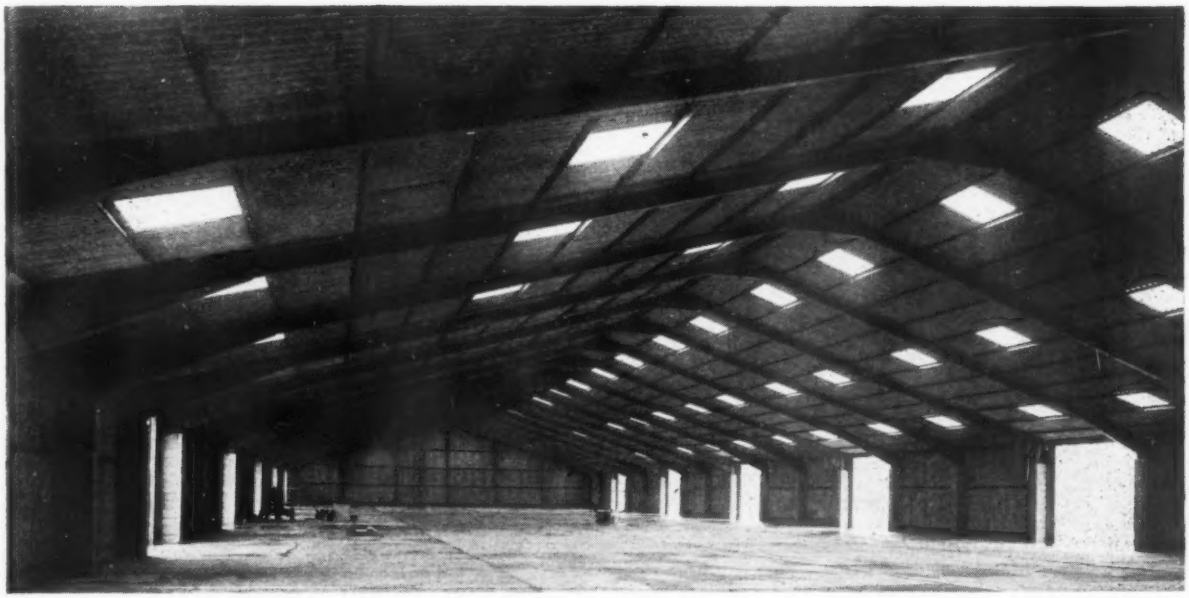
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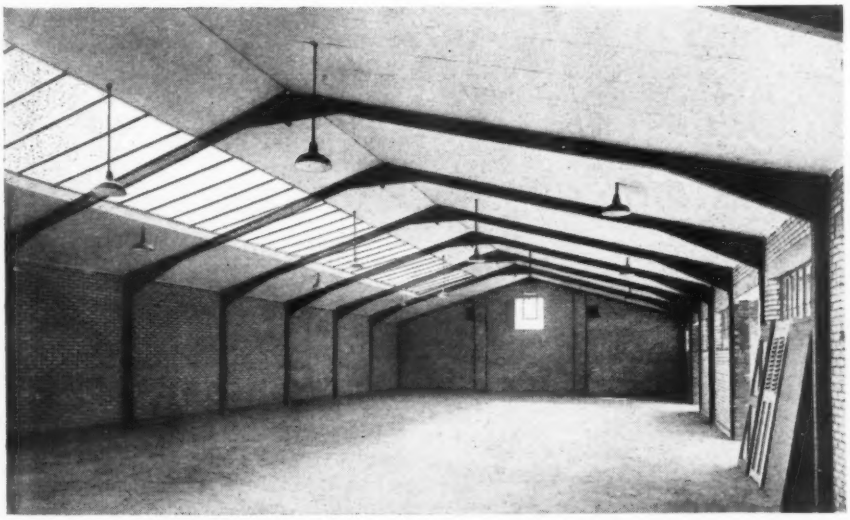
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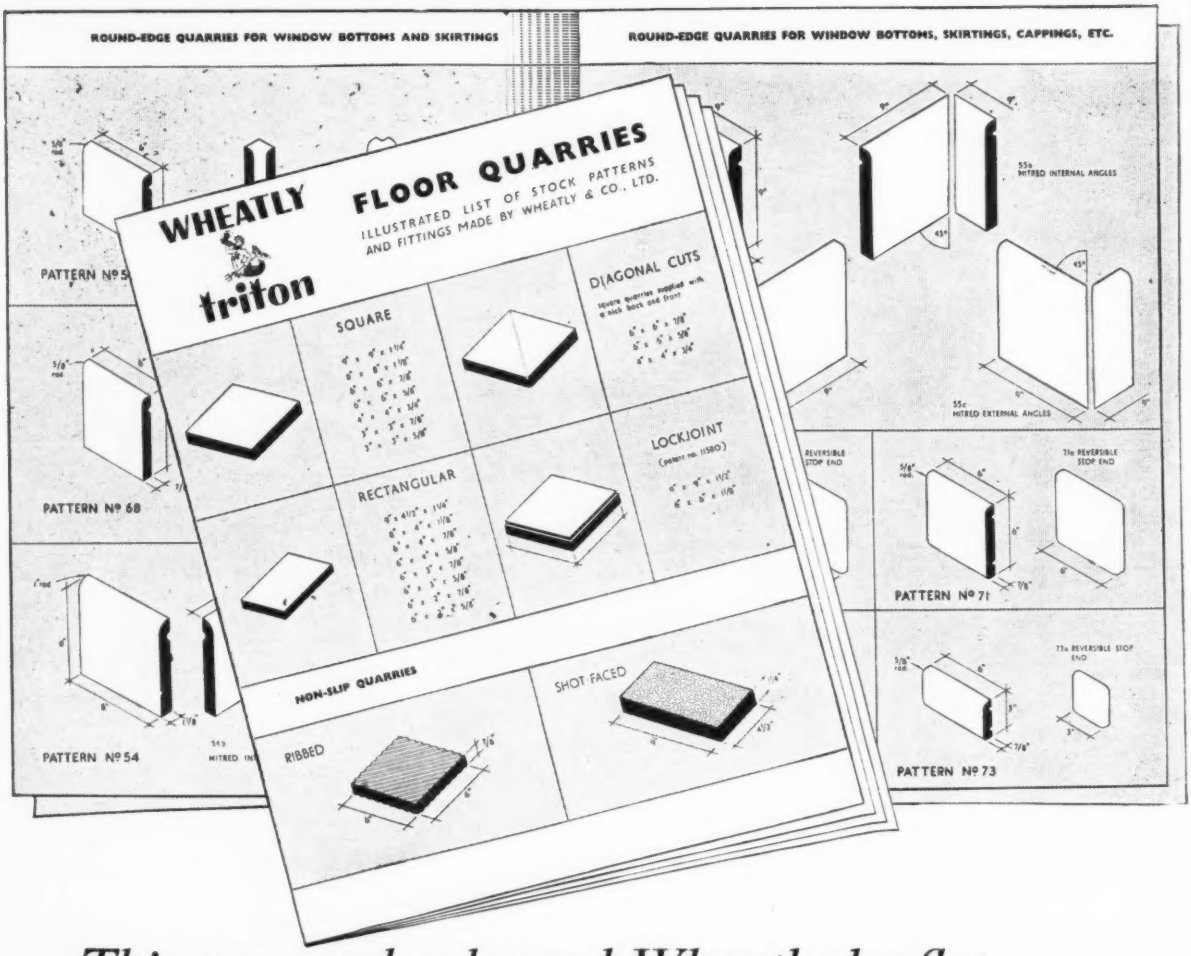
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The leaflet, which should be of great assistance to architects, replaces the existing Wheatly Floor Quarries leaflet, and illustrates a far greater range of Quarries and Fittings. It has been designed to simplify the problems of detailing in the drawing office and of ordering. A copy will be forwarded on request.

Specimens of Wheatly burnt clay products may be seen at the Building Centre, London. They include Single-lap Roofing Tiles, Ridge Tiles (blue and red), Floor Quarries, Air Bricks and Briquette Fireplaces.

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WH 62

lighting for designers



The design of the Lighting used by the Loewy Engineering Co. Ltd., of Poole, Dorset, was recommended by their Architects after considerable research into this problem. The users' requirements were that 40 lumens sq. ft. be provided over the whole working area and that fittings should be positioned for convenient maintenance.

It was economically advantageous to install multi-lamp fluorescent fittings and the scheme was prepared by the Architects in consultation with EKCO. The result can be seen from the accompanying photograph which shows a part of the main installation. Over 400 EKCO multi-lamp quickstart fittings were used. The majority of these were three-lamp 5ft. 80 w. trough fittings from the EKCO standard fluorescent range. The lamps used extensively throughout this building and the associated office block total more than 1,500 EKCO 3,500° white lamps.

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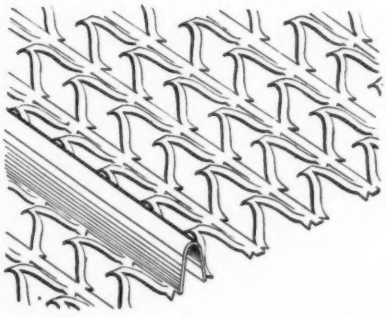
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THE ARCHITECTS' JOURNAL

No. 3191 Vol. 123 April 26, 1956

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THE NEW JOURNAL

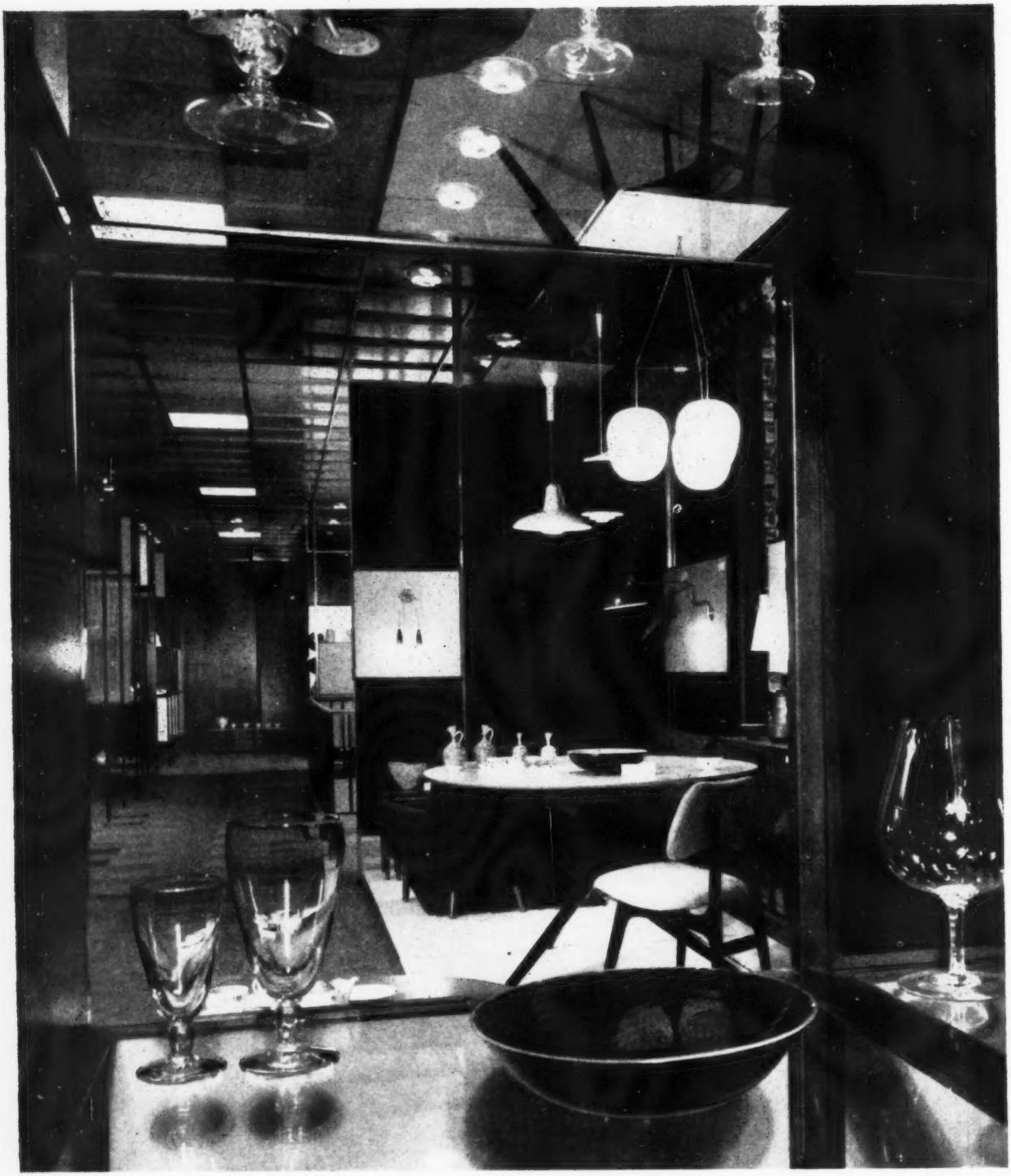
This is the second of our easy-to-file JOURNALS. In case your office is so chaotic that last week's cure-for-chaos issue went astray, we are again printing on page 403 Gordon Cullen's diagram of a breakdown of the contents. If you compare it with this week's pages you will see that the Technical Section features that are essential for your files now have advertisements backing on to them. This means that you can cut out items from The Industry and from Information Centre without destroying other technical articles you want to keep. And you will notice that when you have torn off the cover, and removed the staples, the last 16-page unit of editorial pages (from page 416 in this issue) forms a self-contained booklet—apart from the first page—on the building of the week, illustrated and analysed. Because we thought you might prefer to have lists of contractors where they can more easily be seen in relation to the building illustrated, we are now publishing them on the last page of the building's analysis.

*

In addition to making this tedious but essential business of filing easier for you we are giving you more to file. Each issue will have more editorial pages than before, and every other week we shall print an extra Working Detail. (This will bring your annual total of Details for filing up to 78.)

*

So much for your library of information. We are also helping you to find out, with the minimum of effort, more about the products of manufacturers



Citizen's Design-Advice Bureau

It is probably true to say that the bulk of public opinion tends, today, to be ahead in matters of design of manufacturers and department store buyers. Much of the credit for this should go to the Council of Industrial Design. Official approval of their enlightened and enlightening policy on industrial design has resulted in their receiving government support for the creation of a Design Centre. This Design Centre, at 28, Haymarket, London, part of which is shown above, is due to be opened today by the Duke of Edinburgh. This Centre, which is to serve as a permanent but changing exhibition of well-designed goods, will be of inestimable value to the general public, to trade buyers and to visitors from abroad, and it will also, with the kudos it imparts to its exhibits, be a most potent factor in the COID's ceaseless battle with manufacturers ignorant of the value of good design. Although the exhibition space is not large—some 8,000 square feet, over one thousand items are on view, and a further eight thousand products are shown in "Design Review," the Council's pictorial and flat-sample record of well-designed goods in current production which has been incorporated in the Centre. Further illustrations are on page 407.

who advertise in the JOURNAL. In this issue there is a new type of enquiry form, published on both sides of a page. You have only to tick the name of the advertiser on it, fold it and post it to us.

*

We hope, incidentally, that you will use a little of the filing time we are saving you to send us your comments on what we believe to be a much-needed new approach to architectural journalism.

READ THIS WEEK

The COID'S **Design Centre** opens today. Illustrations opposite, and on page 407 page 402

ASTRAGAL reports **David Medd's criticism** of the indiscriminate use of strong colour

Readers praise the **new-style AJ** page 402

Brian H. Harmsworth accuses the RIBA of stifling discussion and procrastination page 403

The **Housing Subsidies Bill,** now before Parliament, discriminates against three-storey development and comprehensive planning. The RIBA's endeavours to remedy this are given in their correspondence with the MOHLG, commented on on this page, and printed on page 404

FILE THIS WEEK

The Industry. A report on the recent Electrical Engineers' Exhibition, recording the more important recent developments in the electrical industry page 410

Information Centre. Recent publications on the planning of Green Belts are reviewed in this week's notes, starting on page 415

Building Illustrated. The planning and cost of a new building type in the JOURNAL'S series of building analyses—a hostel and laboratories for a horticultural institute—is given on pages 417-430

Working Details. These are taken from a seed warehouse at Witham, Essex, designed by Chamberlin, Powell and Bon. One describes a system of movable partitions for separating piles of loaded sacks. The other describes the structure and cladding of a free-standing escape stair facing page 430

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

The Editors

RIBA FIGHTS FOR COMPREHENSIVE PLANNING

WE print on page 404 correspondence between the RIBA and MOHLG concerning the Housing Subsidies Bill, which is now before Parliament. The RIBA objected to two points in the Bill: first the weighting of the scale of subsidy against three-storey development, and second the exclusion of fit houses standing in clearance areas from the full rate of subsidy. MOHLG's answer to the first objection was that it was not intended to weight the scale of subsidy against any particular form of development, and to the second objection that the Government did not wish to give added encouragement to the demolition of fit buildings so long as the housing shortage and financial stringency persisted. The RIBA pursued the second of their objections, trying—in vain—to get an assurance from the Minister, firstly, that he would give every encouragement to local authorities to proceed with plans for the *comprehensive* development of their slum areas, even if they had to carry them out one piece at a time, and second, that the distinction in subsidies between fit and unfit houses in outworn areas will be dropped as soon as possible. The Town and Country Planning and Housing Committee, who put the RIBA up to this, are much to be congratulated: it is good that the architect's voice should be heard in the Ministries on planning issues, and that it should be heard calling for comprehensive planning and the right sort of design freedom.

LOOK BEFORE YOU BUY

All architects will acclaim the opening of the COID's Design Centre in the Haymarket, London. The only chastening feature is the fact that the building which houses the centre is, from a design point of view, unworthy of it, although architects Ward and Austin have done their best to provide an effective ground floor street-frontage. The COID describe the function of the Design Centre as a guide to wise shopping. When the shopper needs to be an expert on so many things "from synthetic fibres to electronics, from plastics to pottery," the expert advice of the COID, expressed in terms of expert selection, should enable the purchaser to ensure that he gets good, if not the best, value for money. It is in this power of selection (always provided that the manufacturer of a selected article is prepared to pay for the exhibition space) that the

Design Centre, if it were not so limited in size, could rival the Building Centre, and be of service to architects as well as the general public. In any event the Design Centre will be of continuous and growing value to the architectural profession as the creator of informed clients, without which good architecture cannot be obtained. Always provided, that is, that the COID places more, or at least as much, importance on performance and cost as on appearance.



GROPIUS AT THE IRONMONGERS' HALL

Thanks largely to the initiative of Jack Pritchard, the Architecture Club invited Gropius to an excellent dinner at the Ironmongers' Hall recently. This gave a number of people the opportunity of speaking to the great man both before and after the meal. ASTRAGAL ventured to approach Gropius in order to ask, first, whether Gropius had met one of the very few firms over here who practise what he preaches—the Architect's Co-partnership; and second, had he met the architects in the MOE. The answer to the first was yes, he had had a long discussion—even getting down to details of office libraries; and to the second, no.

*

Now English schools are the best in the world. Both Jack Pritchard and Henry Morris (late Cambridgeshire education officer and client for Impington Village College, Gropius's major work, with Fry, in this country) described them thus in their speeches at the Architecture Club dinner. It is, therefore, a pity that Gropius did not meet the MOE architects, who have done more than anyone to achieve this standard. And, of course, the MOE is a public office which owes more to Gropius than to any of the other of the great names, and which, on a bigger scale, naturally, than the ACP can achieve in private practice, has worked towards the integration of art and industry which Gropius advocates.

*

The speeches at the Architecture Club were not quite of the standard of the RIBA, but nevertheless every bit as sincere. Dr. Julian Huxley spoke first, pointing out that without Gropius's influence we should not have had the Zoo's penguin pool, Holford's St. Paul's, or the new UNESCO building. (ASTRAGAL has private doubts as to whether two, at least, of these designs pay more than lip-service to Gropius, but never mind.) Max Fry followed in doggerel verse, excusable, perhaps, on this informal occasion. Jack Pritchard could not refrain from expressing the bitterness of a man who had seen the biggest catch of his life swim away because no one was quick enough with a gaff. Geoffry Dunn spoke "as a shopkeeper," and Henry Morris spoke as a satisfied client of unusual perception. Lastly, and very neatly, Cyril Mardall and others sang a pæon of praise in Latin.

*

Gropius, in his reply, reminded his audience of those who had said goodbye at a farewell dinner in '37 and who were now no longer with us: Moholy Nagy, H. G. Wells, Charles Reilly and Dr. Scott Williamson, "the creator of the great Peckham Health Centre"—names from virtually another epoch.

AA RECEPTION

ASTRAGAL capped the Gropius dinner by finishing his evening at the AA reception. This was on familiar lines—pleasant, inadequately captioned small exhibitions, delightful songs by Michael Flanders and Donald Swann, the author and the composer of the revue "Fresh Airs," and a remarkable, specially written one-act play by the AA's almost too amateur dramatic company, Section AA. All seemed just as usual—too-crowded bars, sudden meetings with age-old familiar faces to which no name will fit, pretty girls, hard floors, nowhere to sit, but everywhere the AA's special brand of delightful people.

*

Complaints? ASTRAGAL must make one. The programme was a dull piece of typography, and some of the decorations—notably those in the style of bargain-basement Oliver Messel—were unworthy of an association with the æsthetic pretensions of the AA.

GAUDI NIGHT

While ASTRAGAL was sorting out his ideas after the Gloag-Medd session at RIBA his indefatigable Scholarly Spy pressed on to the ICA to hear Professor Hitchcock on Gaudi, the great Barcelonese architect. Apparently there was the usual crowded house, the usual number of slides in back-to-front (three in every five), and the usual densely-packed mass of typically Hitchcock material in the lecture.

*

There were few illustrations, I am told, that would not have been known to an industrious reader of magazines, but the placing of Gaudi in his nineteenth-century context was achieved with considerable precision, with emphasis on the fact that he could not, really, be fitted into *any* context—except possibly the constructional tradition descending from Viollet-le-Duc. But even here, Professor Hitchcock pointed out, the devout Catalan was inclined to make fantasy dominant in what you could actually see, however brilliant the maths, however crafty the masons' work that underlay the surface of mad vegetable carving, sea-weed, iron-work, or glittering broken-tile mosaic.

*

Catalan, apparently, was the ploy-word of the evening. The *Olé-Olé* section of the audience hurriedly hid their castenets when the Prof. made it clear

that Castile was out, as far as architecture was concerned, and Catalonia was in; and one and all left, after a most impressive evening, secretly resolved never again to make a noise like *Antonio Gowdy*, busily rehearsing *Antawni Ga-oodi* under their breaths.

BRUSH UP YOUR PIZANO

And while on the subject of Professor Hitchcock, it seems that a few copies of his book *Latin American Architecture since 1945** are in circulation over here. Get your hands on one if you can. It brings together a formidable bundle of buildings and fills in the gaps (the geographical gaps even) left by a little too much emphasis on Brazil and Mexico.

*

There are some old friends, of course, and there are some new friends, like the buildings in Caracas—including the brilliant Edificio Polar. There are also Corb's Curuchet House in La Plata, of which photos have not previously appeared, Barragan's stupefying house in the Pedregal; and the work of men like Moreira, Bouret, Borges, Pizano. Never heard of them? Then get the book.

NOT MUCH CHANGE

Since there has been a gap of nearly six months since the last Budget there wasn't much scope for major changes, and the daily Press hints that the depressed middle class were to get some major reliefs have all fallen very flat. The twopence on cigarettes no doubt led to some bad-tempered non-smoking for a day or two; the thought of a possible £1,000 for the price of one will have made a few eyes glitter and the concession about pension payments is quite useful since so many architects are self employed. I'm not so sure about the increase in profits tax but it should at least have some small influence in keeping manufacturers' prices down.

PRE-LIMBO LIVING

ASTRAGAL on the whole disagrees with the idea of providing Homes for Old People—that is, for unnaturally large groupings of houses for the old, who sit in mind- and body-rotting idleness waiting for death to despatch their neighbours or themselves. The idea stems partly from cruel sentimentality and partly from tidy-mindedness.

* Museum of Modern Art. $6.50.



A perspective of Clifford Culpin and Partner's winning design in the competition for a home for old people, sponsored by the ABS. See ASTRAGAL'S comment below.

Old people are either fit, when they can undertake light work and live normal lives in small houses and flats as part of ordinary town life (with odd help from relatives), or they are ill or senile, when they need either expert medical attention or semi-skilled nursing. If that is the purpose of the warden in the proposed ABS homes at East Horsley (the prize-winning design, by Clifford Culpin and partner in the recent ABS competition is shown above; see also last week's issue), he is going to have a busy life. If, on the other hand, the home is for poor architects and their dependants, then space should be given for serious gardening, a workshop and, say, rentable drawing offices, so that they can continue to earn part, at least, of their living without enduring the humiliation of charity.

*

The winning design for the ABS old people's homes competition is probably the best of a, on the whole, low standard of entry. In theory this should have been the perfect competition: by architects and for architects. In fact, it is rather disappointing. Culpin's cosy bungalows are well disposed but hardly an architectural triumph. Of the more contemporary designs, few mastered the incredibly difficult problem of flat roofs at only slightly above—or even below—eye level, and none could produce an intimate urban layout for those inhabitants who might not want an outlook confined to whispering sylvan glades.

*

After all this criticism, however, ASTRAGAL draws your attention to the appeal for funds published overleaf, and hopes that you too will invest in the future, as does ASTRAGAL himself.

MUD IN THE EYE

A combination of MOE and BRS at a lecture can usually be counted on to get this cantankerous columnist out in front cheering before the last words have been reflected from the smooth, rich panelling of the Henry Jarvis Hall. But not last week. Forewarned by a

enquiry form

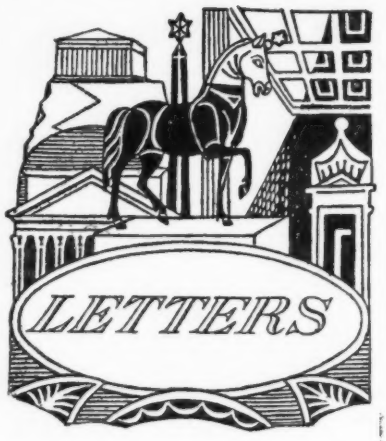
There are an enormous number of readers who make use of the JOURNAL'S Enquiry Form in order to obtain further information on the building products shown in the advertisement pages. If you wish to make use of this service this week, you are advised to turn to the very last page of this issue. Here you will find an enlarged enquiry form which needs the minimum of effort to fill in. Just tick the relevant names, write your name and address, tear out the page, fold it and despatch. No stamps are necessary. We will ensure that all the manufacturers whose names you tick are advised of your request for further information.

preview of the introduction to H. L. Gloag's and David Medd's talk on colour in buildings, ASTRAGAL looked forward to hearing more about: "colour has an effect on the character of buildings out of all proportion to the scant attention which the subject has so far achieved. . . . The concept of character and the contribution which colour itself makes to character is our main theme. By character we mean the collective effect of visual qualities. . . ." The slides which followed, although accompanied by an adroit double act by Gloag and Medd, paid almost more attention to the effect of light than to the effect of colour. Apart from the pale blues and whites used in baroque churches to emphasize sculpture, mouldings, and ceiling paintings; and the odd school, most of the slides were conspicuous for the absence of painted colour and the emphasis on natural or inherent colours, e.g., Moser's church, Aalto's library, Llewellyn Davies's ward unit.

*

It is only reasonable that David Medd, who started the interest (it is hard to avoid saying fashion) in primary colours in schools, should now be intrigued by more subtle effects, and is irritated by the indiscriminate use of strong colours on buildings. But rich colour is all that the twentieth-century can offer now that texture, sculpture, decoration and bold three-dimensional modelling is too expensive for present-day façades and surfaces. ASTRAGAL has considerable sympathy for those in the audience who had hoped for advice on the effect of texture on colour, and the psychological effect of colour, and for examples of good colour schemes, carefully analysed using the new BSI colour range. However, one cannot leave the subject of colour without once again congratulating BSI, the Paint Industry Colour Ranges Committee and the RIBA on agreeing the BS 101 colours. Several speakers at the RIBA emphasized this. The effect was slightly spoilt, however, by a sour comment from a speaker from ICI, representing the paint industry, who showed extraordinary obtuseness in not understanding the BS colour card reference numbers and in obviously hankering after names for colours of the "nymph's blush pink" variety.

ASTRAGAL



Architects' Co-Partnership

C. F. Timothy, A.R.I.B.A.

K. C. Twist and K. C. Evans, A./A.R.I.B.A.

John L. H. Kitchin, A.R.I.B.A.

Robert O. Foster Chairman, ABS Centenary Appeal Committee

David Medd, A.R.I.B.A.

P. Bradshaw, F.R.I.B.A.

Anon

Anthony Jackson, A.R.I.B.A.

Brian H. Harmsworth, A.R.I.B.A.

Praise For The New Style AJ

SIR,—Congratulations on the new arrangement of the JOURNAL. It seems to work excellently and will undoubtedly make filing easier.

But now that the list of contractors and suppliers is put where it belongs, and will form a useful reference in the filing system, we suggest it should be more comprehensive. Who, for instance, makes the "alkyd rubber varnish" used in the building illustrated in the last issue?

ARCHITECTS' CO-PARTNERSHIP.

London.

[We are glad that the new arrangement meets with approval. The alkyd rubber varnish was manufactured by Messrs. Vitretex (England) Ltd.—EDS.]

SIR,—Congratulations on the new breakdown (if that is the right word) of the JOURNAL: it is a step in the right direction. I have, however, two criticisms to make. The first concerns the ticketing of the job pages: granted that office economy requires that the filing be done by a junior, could the main building type (to be followed if necessary by a sub-type) be printed in the top right-hand corner of the opening page? Last week this job was an Admission Unit at Wallingford, Berkshire. Subsequent reading makes it clear that this is part of a hospital, but if it had been marked "HOSPITAL: Admission unit" all possibility of dither would have been removed.

My second criticism is more fundamental: can you not make your advertisers see sense? Advertisements for architects should contain serious information. What architect is going to spend time on a page advert containing nothing but a large photograph of a job with a note to say that Mesrs. So-and-so's patent glazing or tiles or sound-proofing was used on it? Link the product with the job by all means: but if you really want to arrest the architect's attention show him a drawing showing *how* it was used. If advertisements were to become informative then there would be a case for giving *them* headings for filing—like Information Sheets.

C. F. TIMOTHY.

London.

SIR,—Congratulations to the Editor and staff. Very good move. We thoroughly approve, and as filophiles we shall find life very much easier in future.

K. C. TWIST and K. C. EVANS.

Hertford.

SIR,—The most conscientious practising architect—as you and others have pointed out repeatedly in the past few years—finds the greatest difficulty in keeping himself abreast of current practice in many fields. Yet it is largely by his awareness of the best solutions to many technical problems that he is able to maintain his value to the community, that his advice will be sought and his services demanded.

The gradual mending of this state of affairs is the concern of many bodies and forms no small part of the task of a responsible technical press. The fact is, however, that much useful information is published in periodicals, books, digests, official reports and so on, in such a haphazard and widely scattered manner, that it is impossible for the architect to see or assimilate more than a fraction of the total.

It is therefore most encouraging to see THE ARCHITECTS' JOURNAL, with its excellent record for providing sound technical information, reshaping to allow clean filing and easy use.

The wider problem of "scatter" of information in the technical press as a whole must surely eventually be tackled by the profession through the RIBA.

JOHN L. H. KITCHIN.

London.

ABS Centenary Appeal

SIR,—In 1950, when the Architects' Benevolent Society was 100 years old, an appeal for £50,000 to build and endow our own cottages was launched. Since then, through the generosity of many donors and, in particular, due to the magnificent work done by the ABS Ball Committee under the chairmanship of Cecil Epril, £23,500 has been collected.

After many delays and difficulties, a site has been acquired and the result of the competition for the first of the houses has just been announced.

Clifford Culpin & Partner, who have won the competition with a most interesting design, have been instructed to proceed immediately with the first part of it.

My committee is anxious to see that the money may soon be provided to complete the scheme, and I hope therefore that I may appeal to everyone of the 19,000 architects on the register and to all who care for the profession to give again to this appeal. Donations of all sizes will be gratefully acknowledged by Miss B. N. Solly, the secretary of the Society, from this address. She will also be only too pleased to send on request particulars of the Covenant scheme—by which those who will promise to give for seven years can provide the Society with an extra 14s. 9d. in reclaimed income tax for each £1 given.

ROBERT O. FOSTER.

London.

Furniture Development

SIR,—I am a keen and active supporter of the work of the Furniture Development Council, as I think Mr. Pritchard knows. The space given to the work of the F.D.C. in a short review of the exhibition is indicative of the importance I attach to it. Reference to the last sentence of the first and last paragraphs of my review should leave the reader in no doubt about this.

DAVID MEDD.

Herts.

[The above is a reply to the letter by J. C. Pritchard (published last week) criticising Mr. Medd's article (March 22/29) about the British Furniture Exhibition.]

The Westminster Annex

SIR,—ASTRAGAL must be hard put to find anything to criticize judging from his remarks (April 12) on the bookshop added to the annex of Westminster Abbey.

First he proposes the demolition of the building which contains the historic Jerusalem Chamber. By well-designed, I meant, of course, a contemporary design. Mr. Bradshaw, in his last paragraph, refers to "a minor addition." The bookshop is not an addition, but a conversion of the existing building.]

Architecture In A Vacuum

SIR,—Mr. Eric de Maré argues in effect that politics affect the visual environment fundamentally whatever architects try to do *as architects*, and therefore no progress can be made unless architects enter politics; to quote his own terms, he advocates the employment of one "stink" to overpower another.

How the Social Credit civilization which he advocates so strenuously would achieve this air-wickian mission he does not say; whether it is ever likely to get the chance can perhaps be answered with more certainty.

The application of our art to the satisfaction of the client's needs is such an absorbing occupation, and we all have so very much to learn about our own job, that most of us are content to make our contribution from the point where those needs are expressed. Our clients cannot wait whilst we design a new civilization, but "one tidy window grid" *is* a contribution towards the improvement of environment. Has the advocacy of Social Credit during the past twenty or thirty years produced even that much progress?

ANON.

Beware Of Fratricide

SIR,—With the great majority of architects producing buildings and not architecture, it is sad to find the remaining few disputing each others legitimacy. Our artistic Messiahs, misquoting their masters, roar their gospels in coffee-bar and Press and coin catch words for their followers to bleat. It is nonsensical.

With our present ability to construct diversely and richly, surely each architect may draw upon his own experience for his own re-creation. Architecture cannot be codified and the perfect solution produced. Each of us sees differently and significance is personal.

Ideas are interesting but buildings live; not only in our own time but in the future. Fashions, creeds and excuses are forgotten. Each building survives its creator and has its own soul. Let future historians find the pattern of our collective development while we build in our diverse styles, with faith and integrity.

Tolerant criticism is difficult and each of us draws his own list of brother architects. Let it not be that there is only oneself on the list. Instead of fratricide, perhaps we could release our energies for the fight against our Associates, who in practice, committees and schools, maintain no standard whatsoever. While merely intolerant and hyper-critical of my brother architects, I am appalled by the remainder.

ANTHONY JACKSON.

Essex.

Does The RIBA Stifle Discussion ?

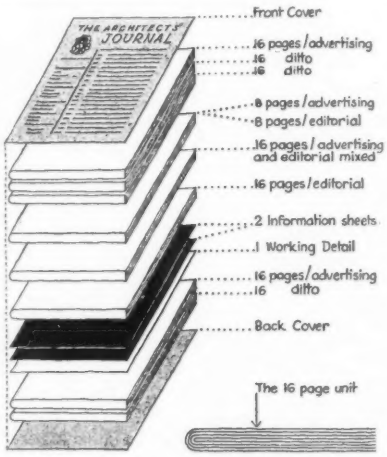
SIR,—I have been in correspondence with the RIBA since April last year about several matters affecting the structure and well-being of the profession. In May, the secretary informed me that my letter would be brought to the attention of the Council, but it was not placed before the executive committee until October 20, after many letters of reminder. On January 2 this year I was told that my letters had been considered by one vice-president who found only one item that "had not received almost continuous study in recent months." This one item has been the only point answered at all, but I was sent a copy of the reports of the Committee on Private Architectural Practice by Unqualified Persons, and of the Ad-Hoc Committee to Review the Architects Registration Acts, the former being published in 1953 and the latter marked "confidential" and unpublished.

As these reports included many recommendations, I asked the Institute how many had been put into effect and with what result. I also asked why it should take six months for my letters to get beyond the secretary. To all this I only got the usual stock reply that all the points I had raised were meticulously and continuously under discussion and that "the executive committee were not prepared to enter into further correspondence on these matters."

I understand that many other letters on similar matters were discussed by the executive committee: have the writers had any more satisfaction than I have had, or is the Council intent on stifling discussion of the problems of the members who elect it?

BRIAN H. HARMSWORTH.

Horsham.



A typical JOURNAL

TO START YOU FILING

A unique opportunity to build up your own reference system by filing articles, descriptions of buildings, and cost analyses, has been provided by the new arrangement of the JOURNAL's pages. The secret to making the new JOURNAL easy to file lies in removing the staples which binds the pages together. It will then be found that the pages are contained in sixteen page units, as shown in the diagrammatic drawing, left, apart from special insertions of two or four pages units such as Information Sheets (two every alternate week) and Working Details (two one week, and one the next), and advertisements in colour. All the major articles which should be filed have been arranged so that they are contained on an even number of pages. Advertisements have been inserted where necessary to ensure this; and to ensure that no two articles which should be filed, end and start on the front and back of the same page. This week there are the following articles and features to file, starting from the end: two Working Details; a fourteen-page article on a horticultural institute at Pershore (pages 417-430), complete with cost analysis; Information Centre (page 415-416); and a report on recent developments in the electrical industry (pages 410-415). All these articles can be valuable items in your personal reference system if taken out and filed.

Lastly, there is, just inside the back cover, a complete list of advertisers in this issue. If you want any further information on their products, just tick the relevant names in the box provided, take out the page and fold it so that the pre-paid address is on the outside, and despatch. We will ensure that your request reaches the manufacturer.

annex for all the world as if it served no useful purpose at all whereas it is in fact an essential ancillary building to the Abbey. Next he suggests that something positive might have been added such as a "free-standing, well-designed, demountable kiosk" without defining, however, what in this context would constitute "well-designed." Fearing, apparently, that this awkward question might be asked, ASTRAGAL proceeds to evade it by proclaiming a third alternative—a wheeled trolley in the Abbey itself.

Having thus confessed his inability to produce a feasible solution, he launches into some general remarks about submerging the character of a building among politely-conceived additions, all of which may very well be true, though what relevance they have to a small bookshop beside Westminster Abbey I do not know.

Here then surely is the point: where a very minor addition is necessary to a major building of distinctive architectural design and great beauty the position of which precludes the possibility of any further additions and consequent loss of character, the most that can be hoped for is a solution which is, to use ASTRAGAL'S words. "neat, harmless and unassuming."

P. BRADSHAW.

Surrey.

[ASTRAGAL replies: It is hard to see why Mr. Bradshaw considers the annex an "essential ancillary building" to the Abbey. It is not directly connected with it, and it is only a nineteenth-century addition to the Abbey offices. Removed, it would reveal



RIBA and MOHLG

Housing Subsidies : An Exchange of Letters

These are the letters exchanged by the RIBA and the MOHLG which are referred to in the leader on page 399.

Letter from Secretary, RIBA to Permanent Secretary, Ministry of Housing and Local Government

February 9, 1956

DEAR DAME EVELYN,

At their meeting on Tuesday, my Council had before them a report from our Town and Country Planning and Housing Committee on certain aspects of the Housing Subsidies Bill, which is now before Parliament.

There are two matters which are causing some concern to the profession and in which they fear that the provisions of the Bill may prove detrimental to the best possible solution of the problems of re-housing and redevelopment.

My Council would like to draw the attention of the Ministry to the present weighting of the scale of subsidy against three-storey development. This will have a certain limiting effect on architectural freedom in the design of mixed development schemes of houses and flats, especially in slum clearance areas, and they think that it would be of great benefit to the country if the scale should be related to current building costs and so avoid showing a financial bias in favour of any one type of development against another.

The second matter which is causing concern, is Clause 11 (i) of the Bill. It seems that replacements of fit houses that have to be demolished along with unfit houses in order to permit comprehensive redevelopment, do not qualify for the increased slum clearance subsidy. This is likely to be a temptation to leave an area not completely cleared, which will operate against the proper re-planning of that area.

My Council would be grateful if these matters could be given urgent attention during the Committee stage of the Bill.

Yours sincerely,
C. D. SPRAGG,
Secretary.

Dame Evelyn Sharp, D.B.E.,
Permanent Secretary,
Ministry of Housing & Local Government,
Whitehall, S.W.1.

Reply from Ministry of Housing and Local Government

February 13, 1956

DEAR SPRAGG,

The Secretary has asked me to reply to your letter of February 9 addressed to her about this Bill.

As the Minister has made clear in Debates in the House, the new rates of subsidy are not related to any particular level of building costs. They are intended, however, so far as this is possible, not to weight the scales in favour of one particular form of development as against another, though this result cannot be obtained with absolute precision because of the wide variation in building costs, particularly in costs of flats in different parts of the country.

You also refer to the replacement of fit houses. This point was debated at length during the Committee Stage of the Bill (Hansard 31st January, Col. 764 et seq.) and I would refer you to that Debate, where the Minister's reasons were given in full for the policy followed in the Bill.

Yours sincerely,
J. E. BEDDOE.

C. D. Spragg, Esq., C.B.E.,
Royal Institute of British Architects.

Letter from Secretary, RIBA to Ministry of Housing and Local Government

February 23, 1956

DEAR BEDDOE,

I submitted your letter of the 13th February to the Executive Committee of the Council and also informed them of the statement made by the Minister, as quoted in the extract from Hansard which you mentioned.

With regard to Clause 11 (i) of the Bill on the replacement of fit houses, whilst the desire of the Minister (on the grounds of finance and immediate housing shortage) to avoid encouraging the demolition of fit houses is fully understood by the Royal Institute, we feel, nevertheless, that the means of achieving this—by the disqualification of fit houses adjacent to slums from the higher subsidy—may dissuade many local authorities from preparing comprehensive plans for the redevelopment of their slum areas.

In the interests of redeveloping the outworn central areas of towns and cities, so long left untouched, to standards of architecture and layout worthy of comparison with the best examples of other countries, the Royal Institute would greatly appreciate an assurance from the Minister firstly, that he will give every encouragement to local authorities to proceed with plans for the comprehensive redevelopment of their slum areas, even if these plans may in practice have to be carried out a piece at a time, and secondly, that as soon as conditions of finance and the availability of houses permit, the distinction in subsidies between fit and unfit houses within areas which can generally be classified as outworn, will be eliminated.

It is felt that an announcement to this effect by the Minister would do a great deal to allay the fears of those who feel that the new Bill perhaps gives more emphasis to the demolition of slum areas than to their reconstruction.

My Committee feel that this a matter of great importance, on which the Council should make its position known to our members, and they have therefore asked whether the Minister will have any objection to this correspondence being published in the RIBA Journal and the architectural press.

Yours sincerely,
C. D. SPRAGG,
Secretary.

J. E. Beddoe, Esq.,
Assistant Secretary,
The Ministry of Housing and Local Government,
Whitehall,
London, S.W.1.

Reply from Ministry

Whitehall,
London, S.W.1.
March 7, 1956

DEAR SPRAGG,

Housing Subsidies Bill

Thank you for your letter of 23rd February.

The Minister, of course, wishes local authorities to carry out the proper redevelopment of slum areas. In this connection I would draw your attention to the statement made by the Parliamentary Secretary during the Debate on February 14th (Hansard, Col. 2240): "I have explained that the Bill in no way prevents, debars or inhibits a local authority from proceeding by way of redevelopment areas under the principal Act, which is the Housing Act, 1936, or by comprehensive development under the Town and Country Planning Act. What it does do is to decline to put a premium in the year 1956 upon the demolition of areas of fit houses in preference to the demolition of areas of unfit houses."

The Minister has noted the Council's suggestion that when conditions of finance permit the distinction in subsidies between fit and unfit houses within areas which can generally be classified as outworn should be eliminated. I am sure you will understand that the Minister cannot make any announcement about future subsidy policy, but you may be assured that he will bear the Council's representations in mind at the appropriate time.

Yours sincerely,
J. E. BEDDOE.

C. D. Spragg, Esq., C.B.E.,
Royal Institution of British Architects,
66, Portland Place,
London, W.1.

POLAND

Architects' Conference

Some four hundred Polish architects recently held a three-day conference in Warsaw in preparation for an all-Poland conference on building problems. In his address to the conference J. Cyrankiewicz, chairman of the Council of Ministers, summarized the achievements and shortcomings of Polish architecture during the last few years. It was true, Mr. Cyrankiewicz said, that the amount of housing and industrial building completed during that period was no small achievement, but it had often been too expensive and without a style of its own. Polish architects had been right in searching for their own solutions in the construction of administrative and public buildings, but they had often suffered from a severe attack of "Façade" illness, which had resulted in some architectural failures. Mr. Cyrankiewicz laid emphasis on the importance of developing industrial building methods as much as possible, testing them in practice and correcting them on the basis of results and economic calculations. He also called for an increase in the use of local building materials and for the expansion of co-operative and individual housing. He told Polish architects not to be afraid of experiment and to analyse the achievements of other countries, such as the Soviet Union, Germany, Czechoslovakia, France, Italy, Britain and the United States, selecting from them all that was valuable and could be usefully applied to the Polish building industry.

On the third day, the delegates adopted a resolution, summarizing the conclusions of the conference. The resolution states that during the years 1949-1955 Polish town planning and architecture developed in a wrong direction. This was caused, among other things, by the fact that architecture was being "managed from above," by the uncritical imitation of bad models and examples, and often by a wrong theoretical approach. During the last six years the development of technical progress was considerably slowed down, the problem of utility in architecture was pushed into the background, and architecture was weighed down under the burden of pomposity.

Pointing out that the positive achievements in this period were the result of the

individual initiative of various designers, the architects postulated above all freedom of creative research, as well as the unity of form, technique, function and economy in architecture.

The resolution continues "We deem it indispensable to introduce gradually and on an ever larger scale industrial methods in building. Consequently, it is necessary for architects to be able to exert an influence on the building industry and above all on the building materials industry. In this period of revolutionary change in building techniques it becomes essential to promote the latter to the role of a key industry."

Great emphasis was laid in the resolution on the necessity for independent work in state architectural offices, on the problems of the proper care and utilization of buildings, and on the necessity for a revision of methods of architectural training. As far as the latter is concerned, the architects demanded such methods of training as would come closest to conditions of professional work and satisfy the existing needs, as well as a close connection between the colleges and the profession—to be achieved through a constant exchange of experiences between leading scientific, technical and artistic centres both in Poland and abroad.

SYDNEY

More than 700 Entries for Competition

About 730 entry registrations have been received in the State Government's architectural competition for a design for the proposed National Opera House at Benelong Point, Sydney. Announcing this after registration closed recently, the Premier, Mr. Cahill, said that 75 per cent. of the entries were from overseas, including 180 from the United Kingdom. Between them, the 730 entrants were expected to spend about £730,000 drawing up plans for the National Opera House.

Mr. Cahill said that as many of the registrations consisted of groups and firms, the number of architects taking part might well exceed 1,500.

Mr. Cahill said that apart from Australia and Britain entry registrations had been received from the United States, Germany, Canada, South Africa, Switzerland, New Zealand, Holland, and France, and 26 other countries in Europe, the Middle East, Asia, and the Americas.

"In view of this, we can surely expect that the winning design will be something really outstanding, not only in Sydney and Australia, but in the whole world," he said. "Certainly, the site is a magnificent one, and I have no doubt that this fact and the wide discretion allowed in the actual design, have attracted the large number of competitors."

VICTORIA

Town Planning Student to Help LCC

Vinicio Baquero Mora, chief topography assistant in the Public Works Department of the Municipality of Quito, Ecuador, who has been in the UK since September on a nine months' United Nations economic development scholarship to study housing and town planning, is to prepare, as a study project, a plan for the redevelopment of a partly-bombed area in Victoria under the guidance of the LCC.

Under the arrangements for his studies made by the British Council, Mr. Mora has been attached for six months to the Town Planning Division of the architect's department of the LCC. He is also studying in the department's housing division—visiting LCC housing schemes and studying the technique of siting and methods of construction, and has been taking a course in town planning at the Regent Street Polytechnic. He is to remain with the LCC for the last three months of his fellowship, to work on the redevelopment plan.

His work has included a survey of the present uses and conditions of the buildings in the area and the preparation of plans showing stages of development.

Mr. Mora hopes to continue his studies on his return to Ecuador and to become the first fully qualified town planner there.

PLASTICS

Programme on Use in "Residential Structure"

"Plastics in Building" will be the subject of a two-week special summer programme to be given at the Massachusetts Institute of Technology from July 2 to July 13 during the Summer Session.

The programme will include a study of plastics and their growing use in buildings, as exemplified in the design and detailing of a small residential structure. Since plastic will not constitute the sole structural medium, its use in conjunction with other materials of construction will also be studied.

The Department of Architecture and the Course in Building Engineering and Construction of the Department of Civil and Sanitary Engineering will present the programme. Members of the staff who will take part include: A. G. H. Dietz, Professor of Building Engineering and Construction: J. E. Arnold, Associate Professor of Mechanical Engineering: M. E. Goody, Instructor in Architecture: R. W. Hamilton, Research Associate in Architecture: Burnham Kelly, Associate Professor City Planning: Frederick J. McGarry, Assistant Professor of Materials: Robert B. Newman, Assistant Professor Architecture: and Walter C. Voss, Professor of Building Construction, Emeritus. Charles Eames, architect and designer, will be one of the guest lecturers.

KENT

"We Don't Want Re-built Prefabs"

As discarded prefabricated houses are now coming on to the market in large numbers at auction sales, the Kent County Council draws attention to difficulties which might arise if buyers re-erect them without obtaining the requisite consents.

The Chairman of the County Council's Planning Committee, Sir William Wigham Richardson, points out that these prefabricated houses were designed originally to have a very limited life and the Ministry of Works are now arranging for the sale of those which have been discarded by local authorities after replacement by permanent houses.

"It is understood," says Sir William, "that between 2,000 and 3,000 prefabs a year are being offered for sale. Advertisements of these sales and tendering schedules contain a warning to purchasers that they are responsible for securing planning and bye-law consents for their re-erection. The warning also advises people to ascertain their position regarding these matters before offering to buy.

"Generally speaking, the re-erection and re-use of these buildings in Kent would not be acceptable to the local planning authority. The Minister of Housing and Local Government has dismissed two recent appeals against refusals, on grounds of amenity, to permit the erection of such structures in East Kent. My Committee wishes to save prospective buyers disappointment and possibly hardship by making the position clear. Anyone thinking of buying an old prefab, for re-erection would be wise to make enquiries beforehand about the planning and bye-law position. Enquiries could be made at local council offices or direct to the County Planning Officer either at County Hall, Maidstone, or at one of his Divisional offices."

ANNOUNCEMENTS

Professional

Following the retirement of Herbert Kenchington, F.R.I.B.A., the firm of Kenchington & Farms F/A.R.I.B.A., will now be known as Farms & Partners, A/A.R.I.B.A. The practice will continue at 130, Crawford Street, W.1. (Tel.: WELbeck 6543-4.)

Ronald Ward and Partners (Ronald Ward, D. H. Marriott, L. P. Worby, D. L. Robinson, A. H. Walker, F/A/A/A/A.R.I.B.A.) of 29, Chesham Place, Belgrave Square, S.W.1, have taken into partnership Clifford J. Newbold, A.R.I.B.A., who will be primarily responsible for the West African section of the partnership.

Victor Wilkins, F.R.I.B.A., and W. H. Brant, L.R.I.B.A., have taken into partnership Anthony Cook, A.R.I.B.A. The practice, formerly known as Victor Wilkins, will continue at 12, York Buildings, Adelphi, W.C.2, as Victor Wilkins and Partners.

Michael G. Murray, A.R.I.B.A., has become a partner in the firm of Hening & Chitty, Architects and Town Planning Consultants, practising at 20, Gower Street, W.C.1.

Trade

Electrolux Ltd. announce that they are prepared to inspect and, if necessary, renovate Electrolux M.151 Built-in Refrigerators installed in temporary pre-fabricated bungalows which are being retained beyond the original 10-year period. Further details can be obtained from the Service Manager, Electrolux Ltd., 153/5, Regent Street, London, W.1.

Corrections

The Housing Trust in Malaya, whose work was illustrated in the JOURNAL of February 16, was formed not by the three British architects responsible for the design of the buildings (Messrs. Newcombe, Davis and Felts), but by the Federation of Malaya Government.

Troughton & Young Ltd. were responsible for the electric wiring, services, wiring and fittings in the Chemistry Laboratories at Liverpool, illustrated on pages 317-319 of our issue for April 5, 1956.

DIARY

Opera Houses. Talk by Hope Bagenal. At the AA, 34, Bedford Square, W.C.1. 6.15 p.m. Postponed from April 16.
APRIL 30

Burle Marx: Brazilian landscape architect. Exhibition at the ICA, 17, Dover Street, W.1. Monday to Friday 10 a.m.—6 p.m., Saturday 10 a.m.—1 p.m. UNTIL MAY 26

Week-end visit to Rotterdam and Arnhem. AA excursion. Applications to Secretary, AA, 34, Bedford Square, W.C.1.
MAY 11 TO 15

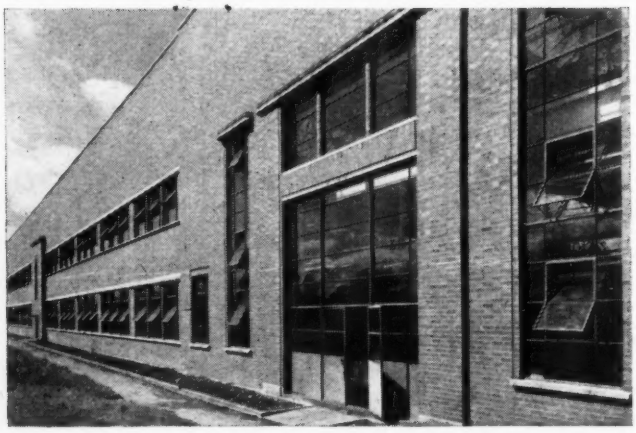
January February March April

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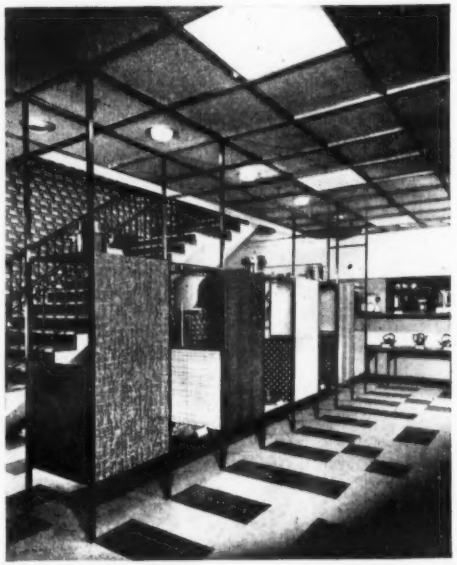
Smethwick, Birmingham & 17 Berners St., London W.1

MEMBER OF THE METAL WINDOW ASSOCIATION

May June July August

WELL-DESIGNED CENTRE FOR INDUSTRIAL DESIGN EXHIBITION







As announced in this week's frontispiece, page 398, *the COID's permanent exhibition of well-designed goods opens to the public today. Three views of this Design Centre are shown left and above. The interior and the exhibition fittings have been designed on behalf of the MOW by Nicholson Brothers. Left, part of the exhibit of office furniture—desks, chairs, clocks, typewriters, calculators, and so on. The main entrance and the reception desk are in the vicinity of the picture of the lion shown in the background. Above, two views of the basement, which at present is largely devoted to kitchen and domestic equipment, and wall-paper. The ceiling panels are of plastic and are reversible, and the grid which supports them is used to steady the demonstrable square-sectioned metal frames which are used to hold the display shelves and panels. The over-all colour scheme is dark, against which the exhibits stand out in high-lit contrast. In defence of their policy of setting up a shopping guide at a time when spending tends to be discouraged, the COID point out that it is " more inflationary to spend money on a thing which doesn't last and doesn't do its job properly " than " to buy something which is durable, effective and a source of pleasure in use."*

BISON PRICES PEGGED?

No, Bison prices are not pegged. On the contrary, they are *down substantially* compared with the general level of costs.

Since 1947 the Cost of Living Index has gone up by 54 per cent. and the cost of the constituents of a Bison precast reinforced concrete floor has increased by 57 per cent.; but the average price has increased by only 30 per cent. in the same period. This means, in terms of 1947 prices, a *reduction* of 17 per cent.

Low first cost is only one factor in the real value of precast concrete. It is not only what you pay that counts but what you get for your money; namely, the benefits that follow logically from production in factory conditions and punctual delivery to the site when required for erection.

Nevertheless, when a business succeeds in reducing prices while maintaining quality, it has proved the efficiency of its methods. That is why these Bison price figures are significant. They relate to normal reinforced concrete made to exactly the same specification (though, in fact, improved methods have resulted in higher quality). Further substantial economies effected by the use, in appropriate cases, of prestressing are not included.



BISON

floors, beams and precast frame structures

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LICHFIELD Dovehouse Fields, Lichfield, Staffs. *Lichfield 2404*
FALKIRK Etna Road, Falkirk. *Falkirk 1585*

CONGI

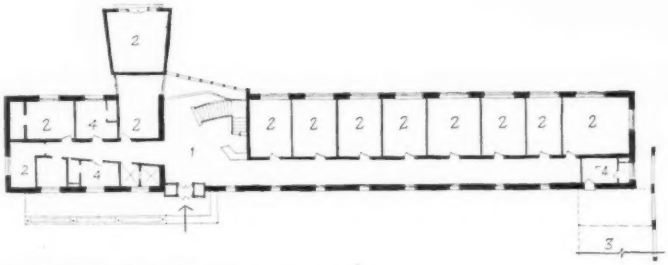
RECENT BUILDINGS BY THE ARCHITECTS' DEPARTMENT, MOW

Offices and Hall at Bahrain

KEY:

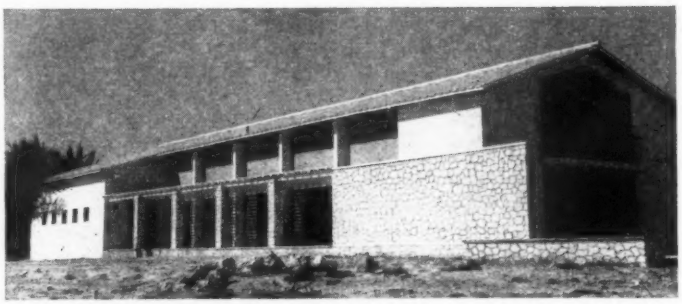
1. Entrance hall
2. Offices
3. Car port
4. Lavatories

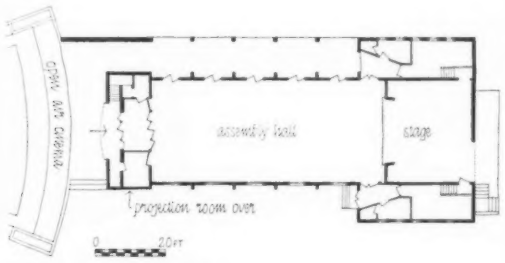




Ground floor plan, offices [Scale : $\frac{1}{16}$" = 1' 0"]

The photograph above is of the new offices in the Residency compound at Jupair, which is at the north-east corner of Bahrain Island, in the Persian Gulf. All the buildings in the compound, which includes staff houses, bungalows and flats and an assembly hall-cinema, below left, are air conditioned. Chilled water from a central plant is fed to individual air cooler plants in each building. The buildings were designed by the Architects' Department, MOW, senior Architect, W. S. Bryant.

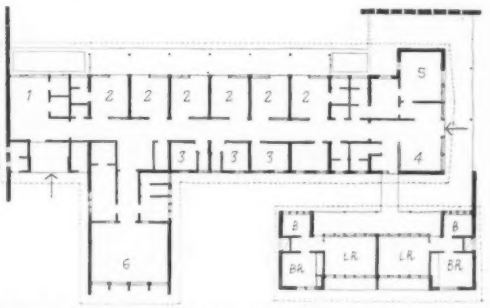




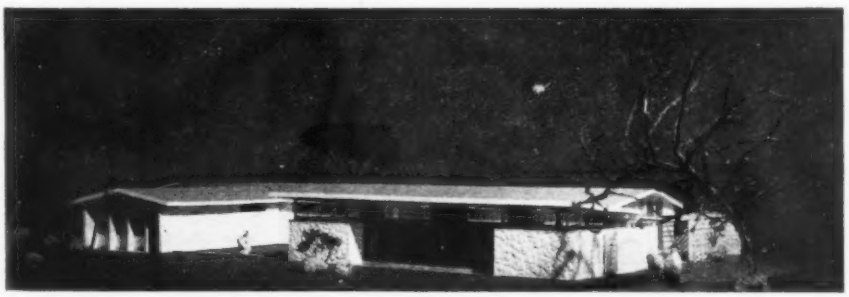
Ground floor plan, hall [Scale : $\frac{1}{16}$" = 1' 0"]

Proposed diplomatic compound, New Delhi

A photograph of the model of the Diplomatic Compound at Chanakya Puri, New Delhi, from the north is seen top left on the next page. The proposed new buildings include a sick bay, below; junior staff flats, top right overleaf, from the south-east; and centre, from the north-west, and also offices, residential accommodation, a community centre, air conditioning plant and servants quarters. The site of 24 acres was purchased by H.M. Government some years ago and is in an area which has been planned and maintained by the Indian Government. There are two blocks of



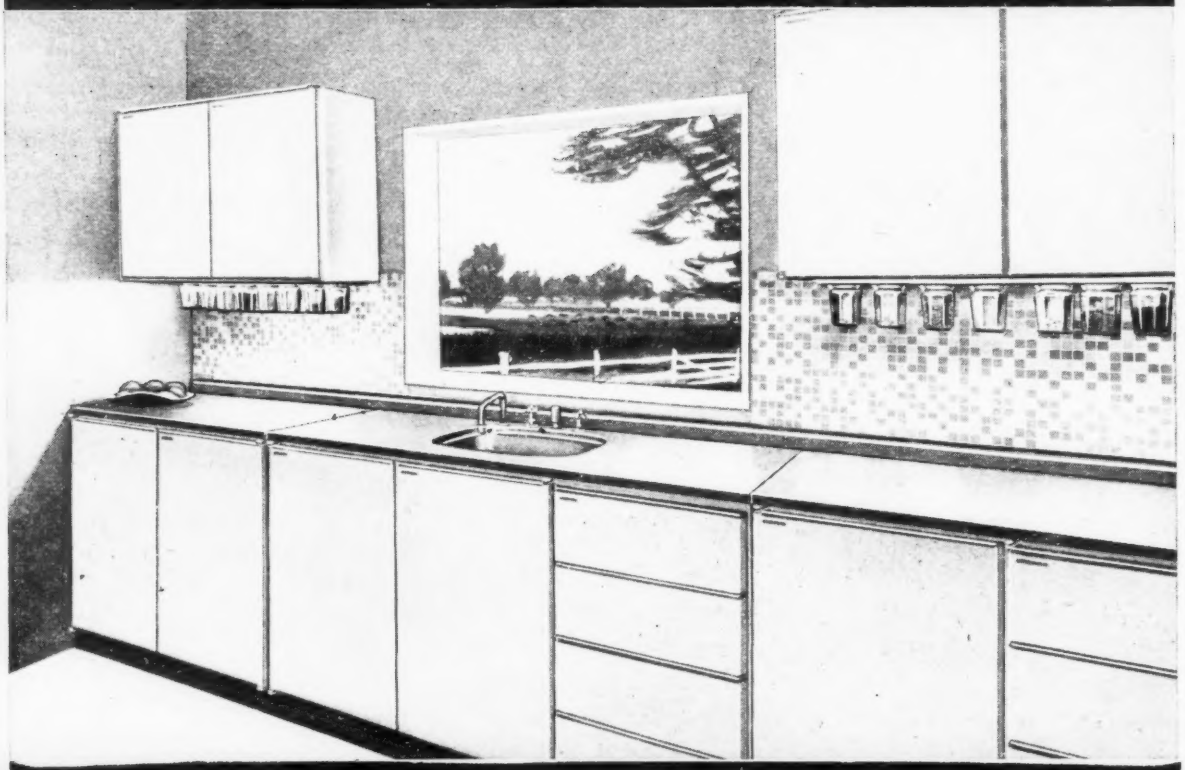
Ground floor plan, sick bay [Sale : $\frac{1}{16}$" = 1' 0"]



KEY

1. Kitchen
2. Ward
3. Bathroom
4. Waiting room
5. Examination room
6. Operating theatre

storemaster



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The **STOREMASTER** range of cabinets and sink units has been architect designed by Clive Entwistle, F.R.I.B.A., M.S.I.A., M.R.SAN.I., F.INST.D. as a result of intensive kitchen research in this country, America and Europe. Employing a patented stressed skin method of construction, low cost equipment of great strength and striking appearance has been produced. **STOREMASTER** units permit great flexibility of arrangement and planning simplicity in all Domestic and Institutional Kitchens, Still Rooms and Pantries.

More STOREMASTER *features:*

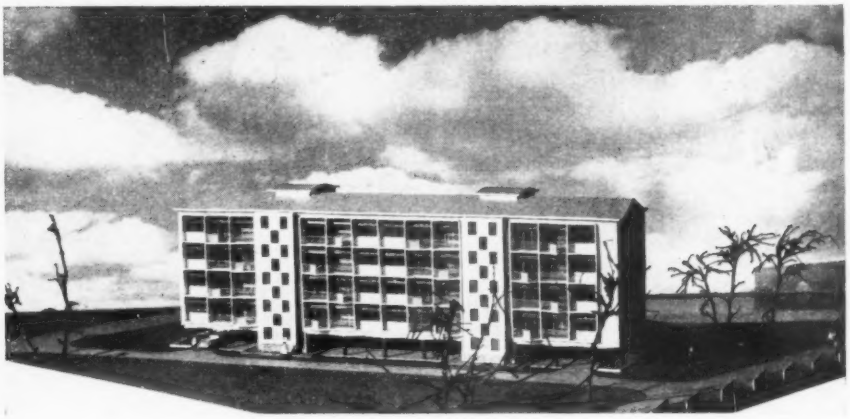
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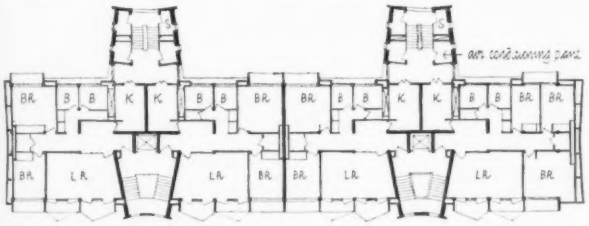
RECENT BUILDINGS BY THE ARCHITECTS' DEPT. MOW continued



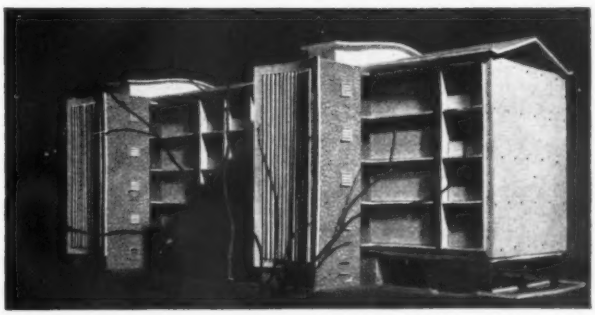


16 flats, open on the ground floor, except for stores, entrance halls, lifts and staircases. The flats will have a r.c. frame, and walls of light weight concrete blocks, finished externally with rendering, glass mosaic or tiles. The roof will be covered with ribbed aluminium sheeting. All joinery will be in hardwood. Most of the buildings will be air-conditioned, with chilled water circulated from a central plant. The buildings were designed by the architects' department, MOW, Senior Architect, R. P. Mills.

KEY
1. Servants' quarters
2. Garages
3. Offices
4. Sick bay
5. Community Centre
6. Junior Married Quarters
7. High Commissioner



Typical upper floor plan, flats [Scale : $\frac{1}{16}$" = 1' 0"]

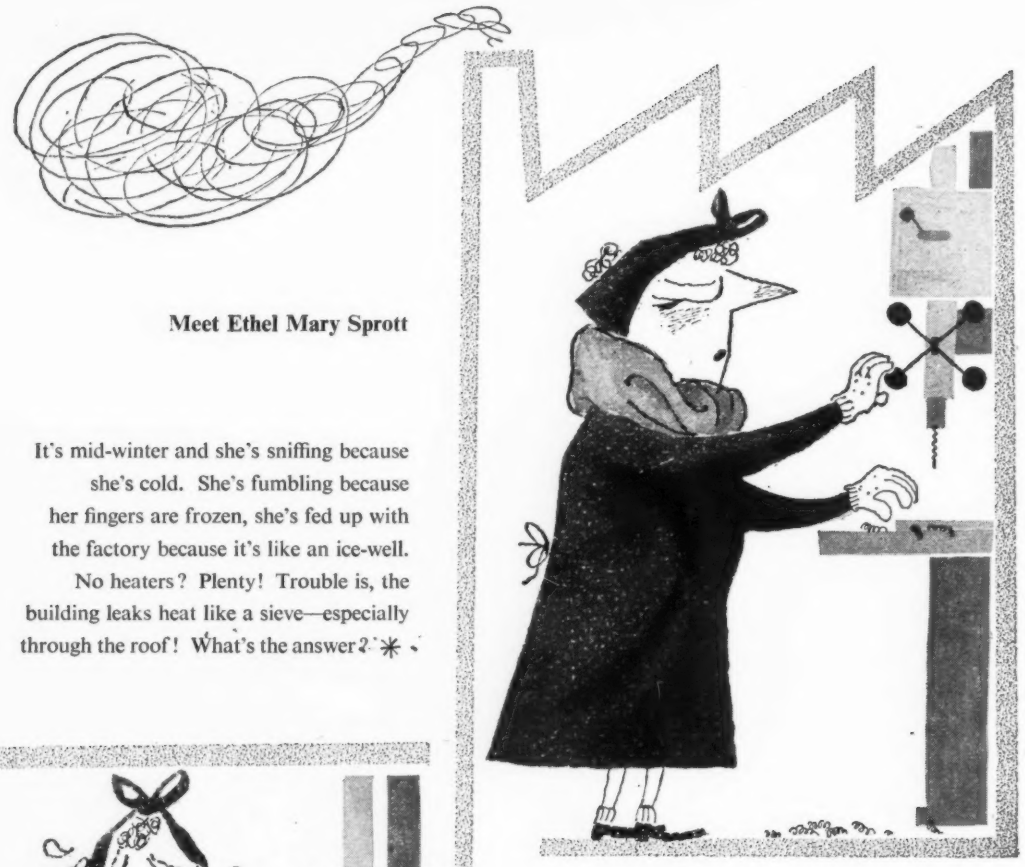


BUILDINGS IN THE NEWS

Airport at Edinburgh

The new Terminal building at Turnhouse Airport, Edinburgh, designed by Professor Robert Matthew, was recently opened by the Minister of Transport and Civil Aviation. There are stone walls to ground floor level, above which all external walls are of timber, faced with vertical mahogany weather boarding. This building will be fully illustrated in a later issue of the JOURNAL.





Meet Ethel Mary Sprott

It's mid-winter and she's sniffing because she's cold. She's fumbling because her fingers are frozen, she's fed up with the factory because it's like an ice-well. No heaters? Plenty! Trouble is, the building leaks heat like a sieve—especially through the roof! What's the answer? *



Meet Ethel Mary Sprott

It's mid-summer and she's sweating and swearing because she's hot. She's getting careless because she's drowsy. She's fed up because the factory's like an oven. What's the trouble? No windows or fans? Not on your life! Feel that roof. It's *baking* hot. No wonder production is slacking off. So what? So . . . *

* *wrap her in*

Factory-warming and fuel-saving in winter, cool-keeping in summer, peace and quiet-making all the year round—that's Fibreglass . . . rot-proof, everlasting, inexpensive, easily-installed Fibreglass insulation.

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FILE THIS WEEK

This report on the recent Electrical Engineers' Exhibition records and recapitulates the important recent developments in the electrical industry. This article should therefore be filed for future reference. To facilitate filing this article is contained on an even number of pages. It is followed by Information Centre, for which the items are prepared for cutting out and filing. Once the JOURNAL *has been unpinned these pages can be easily extracted by cutting out all the pages from page 410 onwards in this sixteen-page unit. By adding the first page of the next unit—page 416—this week's Technical Section is completed.*

technical section

THE INDUSTRY

The fifth Electrical Engineers' Exhibition was held this year at Earls Court from March 20-24 and was larger than ever. Since the Electrician has a foot in nearly every industry in the country only a proportion of the exhibits were of direct interest to the architect. It is, however, our policy to try and keep our readers *au fait* with what is going on in the electrical industry, or at least in that part of it which impinges on building; and for this reason we asked an architect who is more interested than most in the subject (but who wishes to remain anonymous) to look round and to make a report.

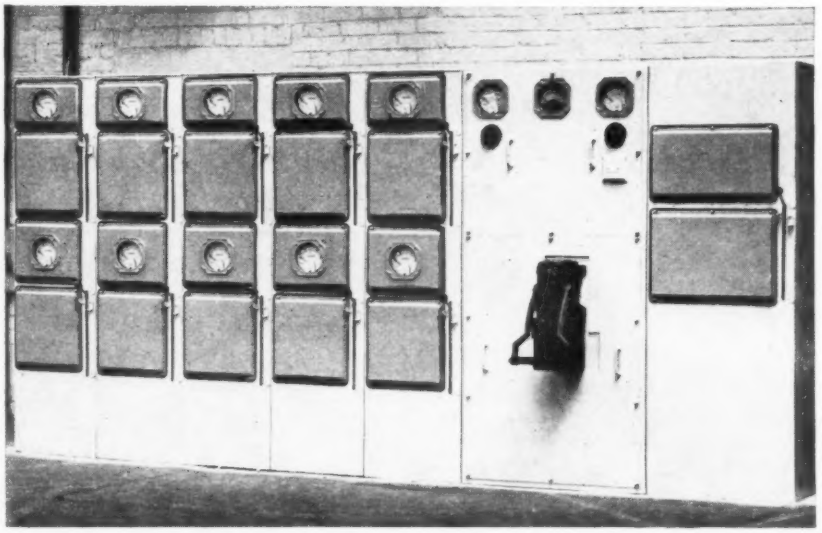
Exhibitions grow annually larger. The fifth Electrical Engineers' Exhibition which closed on March 24 was no exception, for there was an increase over last year of 25 per cent. in the number of exhibitors. Architects and the electrical industry meet only on the verges of their respective fields, but an overlap is developing. Traditionally, electrics are one of the engineering services that go in when the rest of the building has already been designed. Further, the architect has only interested himself in lighting, and in that only in a desultory and half-hearted fashion. But now that so much more electrical equipment is being used, and that the urge to speed building processes requires the easy accommodation of every service, architects wish to discover more about the things that matter to an electrician and to learn the right language in which to tell him the things that matter to an architect. Hence the interest of architects in this exhibition, to note not only the superficial things such as lampholders and switches, but also the things that make them work: the cables, distribution boards, and fuses. Was it significant that before the end of the exhibition the British Electrical Development Association had run out of the pamphlets that give advice to architects? Another aid which the architect would have found very useful was the exhibition catalogue itself, which gave not only a list of the foremost manufacturers and suppliers with their products described, but also a cross-referenced list of the products.

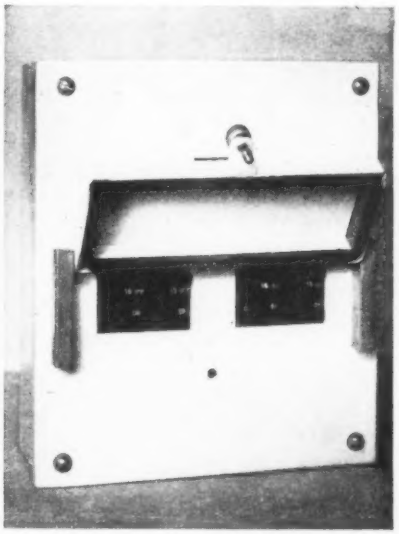
It was said that there were 2,500 new items on show, meaning, presumably, items on show to the public for the first time. The overwhelming majority of these do not affect the architect at all, and in those that do newness in this sense is not the only criterion of interest: what has been done therefore is to discuss briefly those developments which struck at least one architect as being the most hopeful, whether these have taken place in the last few months or the last few years; and to divide these under four main headings of distribution, accessories, lighting and appliances. This approach involves the certainty of saying much that will be already familiar to at least some readers and of repeating some information that has already been given by Brian Grant in the past.

DISTRIBUTION

Distribution, which for the purposes of this report includes distribution boards, fuses and cables, is an aspect of electrical engineering which is developing steadily and is therefore interesting. The tendency is for switchgear and distribution boards to be enclosed in cabinets, with emphasis on ease of assembly, the combination of units in a single cabinet, and simplification of wiring (see Fig. 1). Cartridge fuses have largely

Below left, Fig. 1. Parmiter Hope & Sugden Ltd.'s "Fluvent" flush-fronted cubicle-type switchboards. Below, Fig. 2. Dorman & Smith's "Loadmaster" miniature circuit-breaker in distribution board.





Cacti in peculiar pots and strange shaped chairs have raised many an eyebrow.

But contemporary décor also needs modern paints—beautiful, fashionable pastel shades; paints that could not exist without Titanium Oxide, the whitest pigment known. Paints based on Titanium Oxide stay brighter longer, do not crack or flake and are unaffected by smog. It pays to remember that these modern paints need fewer coats, thanks to the extraordinary covering power of Titanium Oxide.



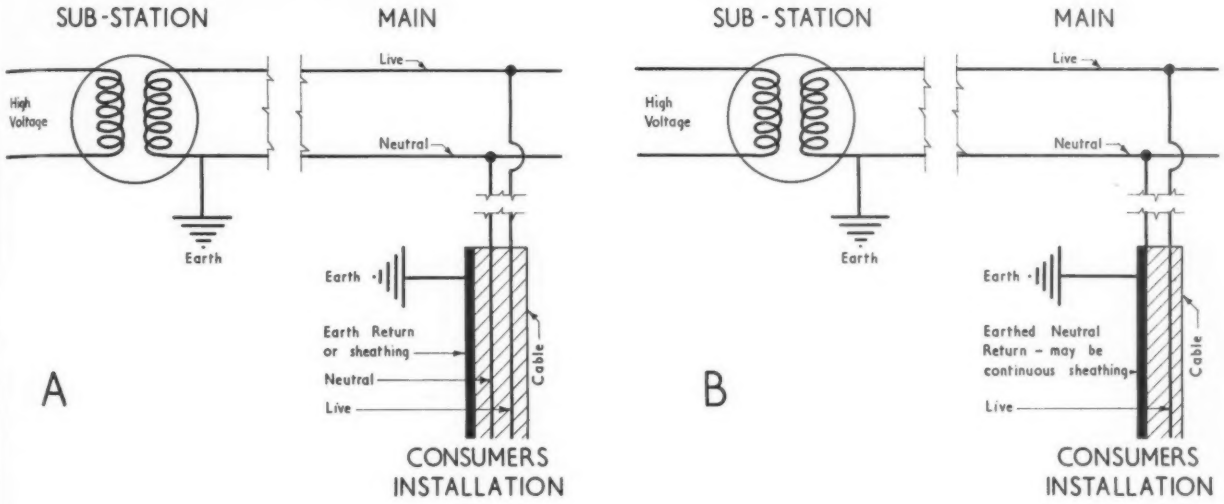
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technical section



Diagrams showing the connection between consumer's installation and sub-station A (on the left) according to present practice and B (on the right) when "multiple earthing" is used. In B the consumer earths his neutral line, using the cable sheathing for this purpose, thus saving on wiring. For simplicity's sake single wires have been shown on the diagrams but the majority of installations in this country are three-phase, requiring three live wires.

superseded wire fuses on distribution boards with little difference in cost, except in maintenance if fuses blow often. A later development is the magnetic circuit breaker, where maintenance is nil, but first cost is at present up about 50 per cent. on fuses. They are of great advantage in hospitals or shops where a long delay in the resumption of current could be serious, or where the nature of the equipment used causes frequent overload (see Fig. 2).

Cable types can now be thought of in the following relative positions in ascending order of quality:

1. Tough rubber or plastic sheathed cable with plastic junction boxes as the cheapest but not always acceptable system. Rubber, with a probable life of 25+ years, hardening with age, not fire-retardant, and not durable in all situations. Plastic, with an unproved expectation of life of 40+ years, excellent resistance to impurities in the atmosphere, no hardening with age, easier than rubber to manipulate except in low temperatures, flame retardant, but likely to break down at temperatures of about 70 deg. C.

2. Steel conduit (whether galvanized or enamelled) with any suitable cable, a well-tried system for good quality installations, with a considerable life, since cables can be renewed fairly easily. Unsuitable in many impure atmospheres; likelihood of corrosion, when all its virtues disappear.

3. Mineral insulated copper sheathed cable, life expectation of hundreds of years, the soundest job of all. Most development is taking place in this field since Pyrotenax the firm who pioneered it nearly 20 years ago, now have competitors in members of the Cable Makers' Association. The cost of an installation in this cable is largely dependent upon the price of copper, which seems always to be going up, and upon the cost of labour for the rather complicated connections. Efforts have been successfully made to simplify these and are continuing. Electricians on the job like to use it because it is easy to manipulate and a craftsman can make a job he is proud of. To generalize on cost, which is rash, it is said that where runs tend to be long, about 6 yd. or more, the cost can be competitive with an enamelled conduit system. It is being used for connections to machines and for rising mains and sub-mains, where, because of the small size of the cable, a large number of high capacity cables entering the distribution box can be accommodated in a small space very neatly. An interesting variant of (3) is *single cored* copper sheathed cable. This can only be used in certain circumstances: (*i*) in an installation where a mains transformer is installed; (*ii*) where the supply comes from an individual generating plant; and (*iii*) where the installation is connected directly to an AC supply system on which multiple earthing of the neutral has been authorized by the Ministry of Fuel and Power. In single cored cable the sheathing acts as the earthed neutral return. This saves about 45 per cent. of the cable cost. Further, the cable itself is very unobtrusive, that for lighting circuits being little more than $\frac{1}{16}$ in. outside diameter.

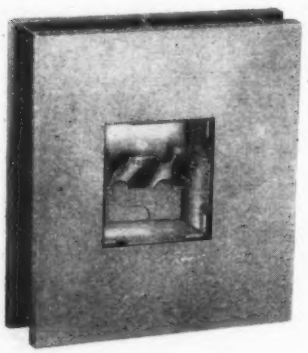
Multiple earthing of the neutral is not yet common, but it is worth further comment. The present system of connecting consumer to sub-station can be shown diagrammatically as in "A" (see diagram) where it will be seen that the neutral line at the sub-station is connected to earth and is therefore at earth potential. In the consumers installation the neutral is still at earth potential and there is an earth return as well. "Multiple earthing" means in practice that every consumer earths his neutral line which may take the form of sheathing of the "live" cable. If the proposals for multiple earthing develop, the consumer/sub-station connection will appear as in "B" when only two conductors will be required in the consumers installation, one being live and one being the neutral which is earthed and is therefore at earth potential and for which the sheathing will serve.

The principal objection is said to come from the Postmaster General, who is afraid that in the event of a failure of the neutral power line, small currents passing through the earth would affect the telephone service. The system is therefore being applied very cautiously until all the snags have shown themselves.

Architects must hope that the method will prove successful, as it would result in quite considerable savings, not only in cable (two lines instead of three) but in earthed accessories (two connections instead of three), and labour to match; also, since the cable can be cut and tapped wherever a new point is wanted it would give a more adaptable system.

For all kinds of cable, minor developments are taking place in the design of fixing clips, connectors, etc. Junction boxes for rubber or plastic sheathed cables are usually arranged so that pieces can be broken out of the sides where the cable is to enter. Ashley Accessories Ltd. have produced a

Fig. 3. Tucker "snap-in" grid box for use with Paramount dry partitions.



technical section

box for general work, and particularly for ring main circuits, with openings permanently formed for two-, three- or four-way entry, and a "differential" cover that can seal all the openings not required. This will save a small task on the job at no extra manufacturing cost. This firm have included in their publicity a very full and clear explanation of the principle and application of the IEE regulations on the ring main system, which is well worth having.

ACCESSORIES

The term "accessories" here refers to switches, sockets and plugs. It would also have covered lampholders if any developments had been noted.

For the architect the first line of development to be noticed is that which flows from the acceptance of "plaster depth." "Plaster depth" is a phrase found on nearly every stand. The switches and sockets so designed are intended mainly for housing and to avoid cutting into thin and hollow partition blocks. Architects should welcome this move, as with the right choice of cable system (*i.e.*, metal sheathed cable, half round or oval conduit) chasing of walls could be completely avoided. So far no more than a three-gang switch can be accommodated in a "plaster depth" box, because of the space required for wiring.

While on the subject of switch boxes, mention should be made of the new Tucker "Snap-in grid box" made in galvanized steel, for use with Paramount dry partitioning. A square hole is cut in the partition, the two parts of the box are pressed in, the switch is screwed in and the whole is locked firmly into position. (Fig. 3.)

Another welcome move is for switch plates, socket, and spur boxes to be designed in matching sets (Figs. 4 and 5). Brown and cream plastic are still tediously popular with manufacturers.

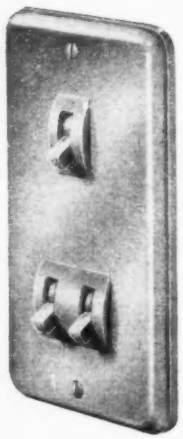
The achievement of "plaster depth" sometimes results in odd bulges in the switch plate, and unusual thickness in socket plates, but such effects are rarely objectionable. More objectionable is the self-consciousness of one series of products that attempts ". . . to suit the contemporary trend of architecture."

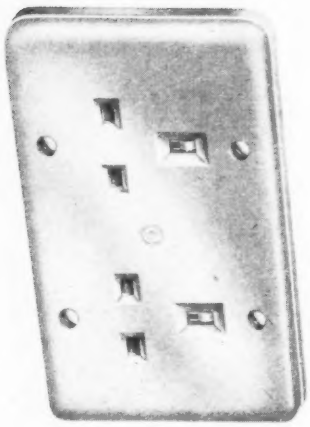
Apart from what might be called styling, switch and socket mechanisms are an interesting study. The silky soft action of one, the positive but smooth click of another, and the rather loose wobble of a third, all guaranteed to fulfil the 15,000 test operations required by BS, lead one to explore the insides and ask for definitions of such terms as A.C. switch, Micro-gap, Microswitch, etc. Definitions do not help much and inspection shows that some mechanisms are subtle, and are beautifully designed and made, others are simple but equally well carried out, while still others appear primitive in all respects. The characteristics of the mechanism are not easily discerned by the feel of their operation. The only criteria that can be universally applied appear to be that a first-class switch should have a positive action when being moved in either direction, and that the distance that the dolly moves in actually making or breaking contact should be extremely small. This prevents all but the most skilful from "buzzing" lights in idle moments. This game (*i.e.*, holding the dolly mid-way so that the switch sparks and the lights go half on and flicker) causes radio and TV interference and is, of course, impossible with the older type of AC/DC QM & B switches.

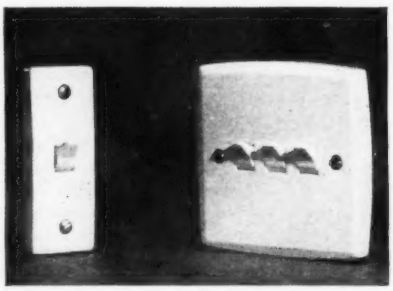
A further point for the consideration of the prospective purchaser of accessories is whether to specify porcelain or moulded plastic bases. Porcelain is accepted as being the better guard against "tracking," that is, leakage between live terminals, but because of the nature of the material greater tolerances have to be allowed for in the assembly with metal parts, and there are always a fair number of rejects. These things add up to an additional cost, or a skimping of other parts for the complete accessory. Moulded plastic bases are used by some manufacturers for all purposes; of these some are marked specifically as "non-tracking." Some manufacturers use non-tracking mouldings for lighting switches only, and porcelain for sockets, but it is doubtful if porcelain has any real advantage over non-tracking mouldings in any position.

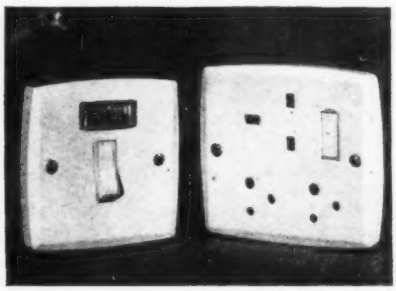
In view of all the variables, there is extraordinarily little variations in price between the products of one manufacturer and another.

So far no manufacturer has produced a moulded switch plate of a greater size than four-gang (*i.e.*, four switches on a plate), and the reason stated is that large mouldings expand and contract too much for their use in conjunction with large assemblies of other materials. When, therefore, large gang switching and exact matching is required, metal plates for switches and sockets must be used throughout. A compromise can be effected by having metal plates enamelled to match plastic mouldings, but this raises the whole question of gang switching. Gang switching (at least in the home) goes back to the days when electric light was relatively expensive and when people therefore wanted to be able to switch on only the lights they needed. It tends to be perpetuated by the circumstance that only a limited wattage can be operated from one 5-amp switch. Now that light current is cheap, experience shows that even when there are several switches in a room, occu-









Top, Fig. 4. Two units in a matching set of Crabtree switchgear; top left, a three-gang switchplate; top right, a two-gang socket outlet. Above, Fig. 5. Four units in a matching set by New Day. Above left, single-gang switch, right, three-gang switch. Above right, control unit with pilot light; right, fireside triple socket.

technical section

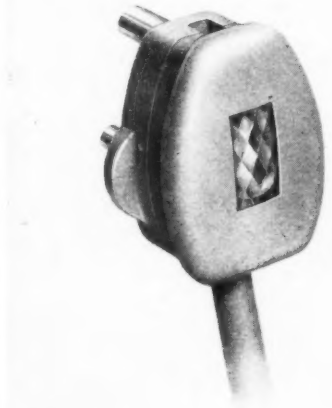
pants turn them either all on or all off. This suggests that it would be preferable to substitute gang switching in many circumstances with single switches of greater loading than 5 amps.

On 13-amp shuttered sockets, some manufacturers (Britmac and Rolls, for example) are improving the safety of the accessory by arranging for the earth pin to unlock the shutter only and not to move it; the moving is done by the live and neutral pins on the insertion of the plug.

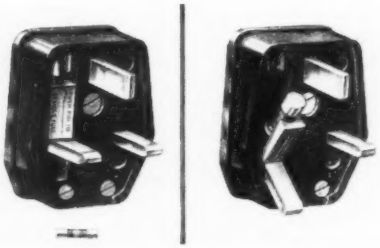
Adaptors for 13-amp sockets are now frequently offered, some fused (Ashley, Rolls. Volex, Nettle, for example) and some unfused. Those who offer unfused adaptors argue that since a minimum number of 13-amp sockets must be provided to the satisfaction of the electricity authority, the probability of an undue load being placed on one is small. Unfused adaptors, however, since any number can be piled on top of one another by gadget-minded householders, would seem the negation of the ring main principle.

Two new types of plug deserve special mention. One, a range of 5-, 13- and 15-amp plugs, priced 8s. to 9s., each by Walsall Conduits Ltd., incorporate a pilot light, which is useful with switched sockets: the plug received the Premier Award in the Exhibition Domestic Class Competition (Fig. 6); the other is the "King Pin" 13-amp plug by Dorman & Smith (Fig. 7) which has a hinged pin and quickly replaceable fuse and sells at 3s. 4d.

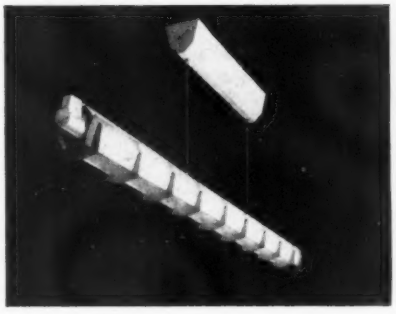
The small pilot lights that have now been developed have been further exploited by M.K. Electric to assist in the production of a very neat cooker control panel (Fig. 8). Where special precautions must be taken against the risk of shock, as in bathrooms, etc., but where ceiling switches which are normally used would not be suitable, a relay such as that being developed by Volex may now be used. This is a shockproof switch which operates at low voltage, is isolated from the mains and will cost about £5. This firm markets another specialized line which will come in useful for architects designing school laboratories: namely, low voltage accessories for use with rectifiers and transformers or trickle charged banks of accumulators. They have sturdy screw terminals for attaching wires.

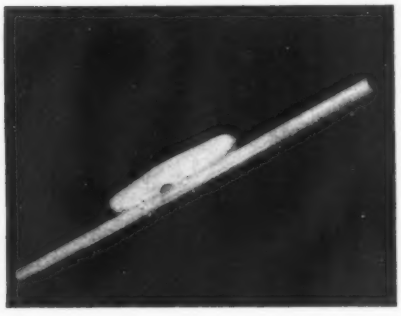






Above left, Fig. 6. Pilot light incorporated in plug, a development which would be useful with switched sockets (Walsall Conduits Ltd.). Left, Fig. 7. Drawings showing operation of the quick-change fuse of Dorman & Smith's "King Pin" fused plug. Above, Fig. 8. Pilot lights on MK Electric's cooker control panel. Below left, Fig. 9. BRS louvred fitting for fluorescent lamps, manufactured by Ekco. Below, Fig. 10. Centre contact batten type fluorescent fitting, by Herman Smith (Smithlite) Ltd.





LIGHTING

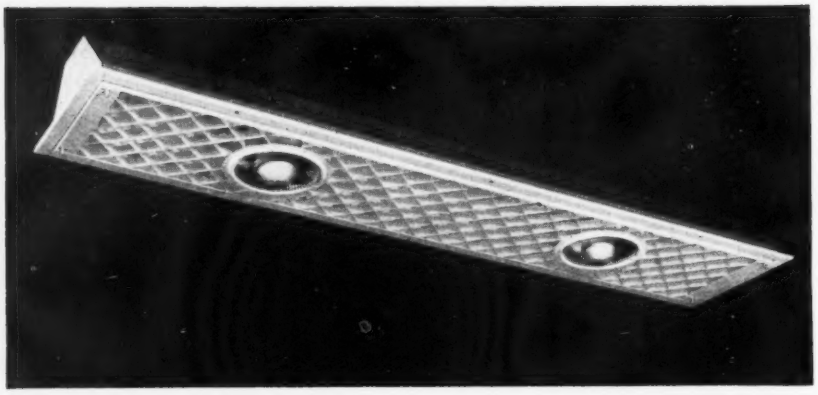
In the lighting field most of the going is being made with fluorescent tubes and fittings, but for the most part prices are still high. This form of lighting outshines tungsten, yet most people find difficulty in taking kindly to it, particularly in domestic surroundings. The problems of satisfactory treatment and cost are therefore still to be solved before the last is seen of the filament lamp. The latest development of the filament lamp, incidentally, is a bulb (marketed by at least four firms) which is coated to give a slightly pink (hence flattering) light and costs about twice the usual price. Fluorescent lights generally give much steadier illumination than they did when first introduced, presumably because the coating is now capable of retaining enough energy to carry over a good intensity of light between the peaks of current.

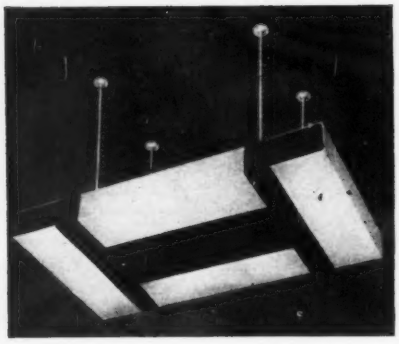
Ekco showed again the BRS louvred fitting for fluorescent tube which is simple, effective, and relatively cheap at £10 15s. (Fig. 9). Herman Smith (Smithlite) Ltd. showed a tube with only one connection, and that in mid-length, for lengths varying between 2 and 5 ft. It has a very tidy ceiling fixing and should have a good future, particularly in the domestic field, for it gives scope for a variety of shade treatment. The smallest costs £3 12s. inclusive of tax (Fig. 10).

Merlin Mouldings have produced a lightweight fitting which includes the gear and will take standard tubes, but which can be suspended from a normal rose or batten holder. This costs 39s. 6d. without the tube. Philips have further developed their "gearless" fluorescent light fittings (Fig. 11) so that the ballast lamp is incorporated with the tubes in one eggcrate fitting, giving a pleasant quality of light and excellent colour rendering as far as can be judged in the environment of the exhibition. The system is not as efficient lumen for watt, as some other forms of fluorescent lighting, though considerably better than an all-tungsten scheme. Cheapest industrial fitting costs about £9 7s., no tax.

Thorn's Atlas "Domino" lighting was a completely new departure (Fig. 12) and consists of square section white opal perspex boxes made in several lengths (with black bases) each containing tubes and gear, which can be placed in various arrangements on walls or ceiling, or be suspended, to create a pattern and to give any quantity of lighting. The pattern may, however, prove to be too dominating in some circumstances, and the lighting to lack life. The cheapest unit,

technical section







op, Fig. 11. Philips' "Amersham" gearless fluorescent fitting. Above left, Fig. 12. Light fitting built up from Atlas "Domino" fluorescent units, by Thorn Electrical Industries. Above right, Fig. 13. Merchant Adventurers' "Ventura 80" fitting.

2 ft. long, is £8 8s. including tax.

Passing from fluorescent tubes to fittings for tungsten bulbs, Merchant Adventurers have scored a near bull with the "Ventura 80" series of fittings for tungsten lighting (Fig. 13) at the very cheap price of 22s. 6d. each. A nicely shaped and moulded plastic fitting, with circular louvres to give a good cut-off: it can be adjusted to suit, 100, 150 and 200 watt bulbs. At additional price it can be supplied with various forms of mounting. It is a pity that such an excellent fitting for practical purposes, and one so much better than many on the market, does not quite comply with the letter of the school regulations as regards cut-off and brightness.

Simplex Electric have introduced an interesting range of "screwglass" weathertight fittings for use in entrance porches, etc., a situation in which the architect's choice is singularly meagre. The fittings are made in either vitreous enamelled cast iron or cast aluminium alloy, to take up to 100 watt bulbs (Fig. 14). The four main parts—base, conduit connection, glass and reflector—can be put together in several ways to suit circumstances. Coloured glasses are available so that the fittings may be used as signal lights for industrial applications. Prices range from 10s. 6d. for the simplest form.

APPLIANCES

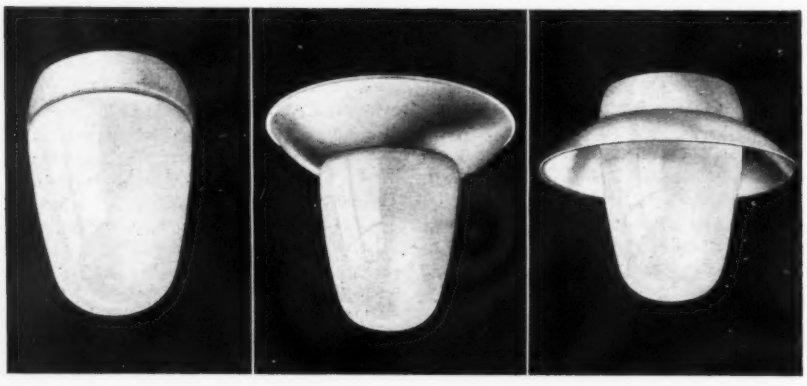
Appliances offer so vast a field that any attempt to cover it would reduce this section to little more than a catalogue. In the circumstances it seemed best to pick out a few developments which seem to concern the architect particularly—even though some of them are far from new. One of these is the use of low-temperature heaters in drying cabinets. A new turn in this development is the use by Hobourn Domestic Appliances Ltd. of a patent non-metallic element which does not expand when hot, so that it can be strung in straight lines instead of spirals with, it is claimed, greater efficiency. It is used in a 1,200-watt nursery heater and in a 2½-kW. clothes drying cabinet developed in conjunction with the LCC (Fig. 15). The heating alone costs £9 18s. 2d. including tax, with an extra 22s. for a three-heat control.

Another class of product which shows considerable refinement is that of the electric fan, whether used in conjunction with a heater or for simple ventilation. Messrs. Gillots showed a very neat wall mounted low-temperature fan/heater, selling at £8 18s. including tax. The *de luxe* model is about £12. The fan can run at two speeds, the fast speed being used purely for air circulation when the 1,500-watt heater is not in action.

A good example of the ventilating fan is the newest version of Woods of Colchester's "Xpelair" window fans (Fig. 16). These include an iris shutter which is made and operates in the same way as the iris of a good camera, when you switch off, the shutter closes, thus preventing a back draught. Price of the 6-in. fan, the smallest (7,500 cu. ft./hr.) with shutter is £11 3s.

At the end of this article we have a word of complaint against the British Electrical Development Association's uncritical advocacy of electrical under-floor heating. The fact remains, however, that it is an important development, and it was interesting to note that Troughton & Young Ltd. offer a system of floor heating which consists of steel tubes with preformed slip-on "U" ends to link the tubes, buried in the concrete floor, and leading off a main duct. Special high resistance cables are drawn through the steel tubes. The whole floor is then heated to a temperature of about 75 deg. F. at off peak times. Loading is 12-15 watts per sq. ft.; cost of installation about £15-£23 per kW. loading, depending on the type of building. Lastly, the applications of electronics are always interesting, even though high cost usually rules them out for most of the architect's purposes. At the Building Exhibition we saw doors opened by this means, at this exhibition British Klockner Switchgear Ltd. showed an electronic theatre curtain control. The operator merely has to move a chain on the control board to the shape and lift that he wishes to give to the curtains, press a switch, and the curtain obeys.

Fig. 14. Three ways of using the elements of Simplex Electric's "Screwglass" weathertight fittings.

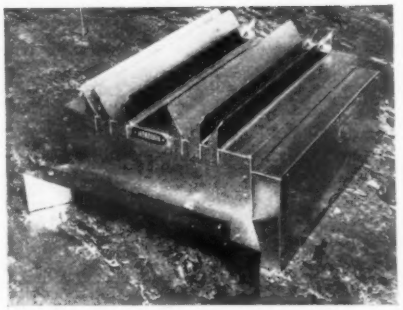


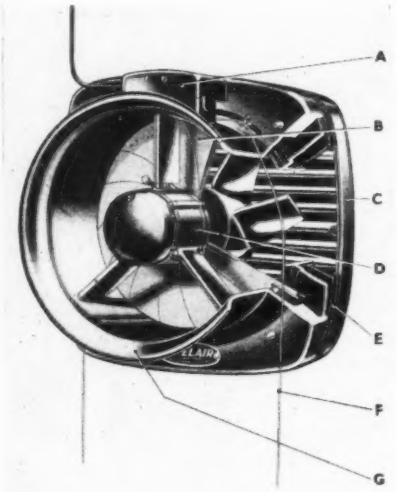
TAILPIECE

An account of the Electrical Exhibition should not close without a reference to the British Electrical Development Association, whose job is not only development but publicity of advice about electrical matters. At their stand they had a large amount of printed material aimed mostly at the public

technical section

Right, Fig. 15. Low temperature heater by Hobourn Domestic Appliances Ltd. for use in nursery heaters and drying cabinets. Below, Fig. 16. Woods of Colchester's "Xpelair" window fan, showing left, the construction, and right, appearance of the louvred casing. Key is as follows: A, fan switch. B, iris shutter. C, outlet grille. D, extract fan. E, rubber cushioned mounting ring. F, nylon cords operating shutter and switch. G, casing.







at large, but some specially for architects. This consisted of brochures and a range of information sheets dealing with specific applications of electricity. The information sheets are very well and attractively presented, and prepared and referenced for easy filing, but uncomprehendably one or two of the sheets are too large to fit any normal file. The information is well founded, judging by the remarks that cover related matters, until it comes to the advocation of electricity where other sources of heat might do at least equally well; perhaps understandably, but nevertheless unwisely, only one side of the case is put. For example, the use of under-floor low-temperature electric heating is warmly pressed. There is little doubt about the advantages of it for comfort, cleanliness, convenience, and perhaps low capital cost and maintenance. In these respects it may be unequalled, but it is a thermal storage system and such a system has clear characteristics. There is no space here to discuss them in full, but in brief they make the system extravagant of heat compared with other possible methods in buildings, or parts of buildings, that are used for only a relatively small part of the 24-hour day, and that is most buildings; and only if the off-peak tariff is extremely favourable—now and in a guaranteed future—can such a system be widely acceptable. There is little doubt that under-floor low-temperature electric heating could be the method for the future, but the interests of the consumer and producer are not best served by urging the use of it now in inappropriate circumstances. The consumer should be advised on the most favourable conditions for its use; the producer should try and develop the system so that it is competitive with the *most economic* alternative system for the circumstances in which its use is advised.

Next year's exhibition will no doubt be larger than ever, as many manufacturers said there were new things on the way but they had been unable to present them this year owing to shortage of manpower. It could be hoped that a preview of all the new developments that affect architects will be available a week or so before the exhibition opens; that stand numbers will be clearly shown; that stands will show clearly what they have new to offer; that there will be a fluorescent light fitting that is both cheap and beautiful; and that there will be somewhere to sit down for a cup of tea.

INFORMATION CENTRE

A digest of current information prepared by independent specialists ; printed so that readers may cut out items for filing and paste them up in classified order.

6.52 planning: social and recreational

GREEN BELTS

Green Belts. MOHLG Circular 42/55. (HMSO. 2d.) *Green Belts: Their Establishment and Safeguarding.* (Town and Country Planning. Feb. 1956.)

The machinery of Town and Country Planning is soon to have another severe test, perhaps one of the most severe up to now, when the green belt policy announced last April by Duncan Sandys begins to be carried out. After studying the details of the scheme, which was circulated to local planning authorities in August (Circular No. 42/55), planners could see that this was one of the most important policy directives they had been given. In his original statement to Parliament, Mr. Sandys expressed his regret that, whereas provision for a green belt some seven to 10 miles deep was included in the Development Plans for the area surrounding Greater London, no such proposals had been made for big cities elsewhere. Convinced that, in the words of the circular, "the only really effective way" of checking the unrestricted sprawl of the built-up areas and safeguarding the surrounding countryside against further encroachment is "by the formal designation of clearly defined green belts," Mr. Sandys accordingly instructed all planning authorities to prepare sketch plans defining those areas which they think should be included in a green belt, so that these could ultimately form part of the statutory development plans. Many of these sketches are now complete, a few have been submitted, and Cheshire even took the bold step of publishing its draft proposals in the Press.

What have been the planners' feelings about Mr. Sandys' new policy? On the whole they seem to have been favourable, although there were some lively discussions at the Town Planning Institute's Summer School on the practical implications when the scheme first came out. In November the *Town and Country Planning Association* submitted a memorandum to the Minister giving its support to the scheme with some pertinent comments on the form of development control required. The Minister's own observations, broadly in agreement with the Association's views, are set out in this month's edition of *Town and Country Planning*. Mr. Desmond Heap in his presidential address to the Town Planning Institute stated that "the clear, deliberate separation of town from country is the very *raison d'être* of town and country planning" and suggested that we all ought to work overtime to preserve the green belts so as to justify ourselves in the eyes of the public.

Not all planners are so convinced either of

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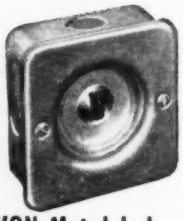
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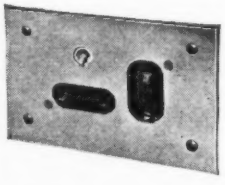
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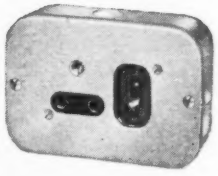
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technical section

the wisdom of the policy as it stands, or of its chances of ultimate success. The green belt idea has often been tried before and the results have not been successful. Why should we suppose it would work now, even with the Minister's blessing? The sad fact is that we still know very little about the complex changes that take place within a town as it expands, and still less of what might happen if we do succeed in preventing this "natural" growth from taking place. No one who has been concerned with development control on the fringe of a big conurbation can be in any doubt about the powerful forces making for outward expansion. No Minister, the critics maintain, could be expected to withstand this relentless pressure consistently on appeal, especially when a refusal will involve a double cost to the nation:—the additional charge for locating the development elsewhere on a more expensive alternative site and the compensation payable to the landowner for refusal. Not only, they continue, is drawing up a green belt a waste of time, it is a positive danger to planning since the disappointment that the public will feel when the inevitable collapse comes, will shake what little confidence they may still have in planning at a time when we most need it. It would be foolish to deny the force of some of these criticisms and it is the responsibility of the Minister to prove them false. There are, indeed, signs that he may do so, for one of the more encouraging developments that have occurred in planning during recent years is the gradual but systematic strengthening of policies making for decentralization. The new housing subsidy structure, for example, is a part of this process. Seen in this light, the strict enforcement of statutory green belts could become a powerful administrative tool to force the big cities to decentralize by denying them room to expand. It remains to be seen if this is the Minister's intention and if, in fact, it is possible to use a positive idea (for a green belt in its classical form was a positive proposal) in what appears to be a purely negative and restrictive way.

Some further light on the criteria the Minister expects the local planning authorities to apply in administering the green belt policy, though not on the reasons behind it, was provided by S. L. G. Beaufoy in his recent talk to a group meeting of the Town Planning Institute in Manchester. From his remarks it seems clear that a green belt will only become part of the development plan when it can be shown that there is an urgent need for it now. Elsewhere, the normal operations of development control are considered to be a sufficient safeguard against sprawl. This seems sound: there is no sense in "devaluing" green belts by having too many of them. Nor, it appears, is the size of the built-up area the only basis on which need is to be assessed. One example quoted was of two moderate-sized settlements which are rapidly growing together. On the question of boundaries of the green belts themselves—one of the most difficult problems from the planning authorities' point of view—Mr. Beaufoy could provide little guidance. Indeed, he made matters worse by confirming that, once the boundaries of the green belts are fixed they will not be subject to periodic review as in the case with other development plan proposals on the grounds that this would weaken public confidence. This makes the planning authorities' task of reaching agreement with other local authorities on a line to be maintained "for all time" an unenviable one. He agreed that the planning authorities will need to be more strict in their control of development within the green belt itself, where the onus of proof on appeal would rest with the developer rather than the planning authority, but his list of developments which might on occasion be permitted seemed rather extensive. Existing development within the green belt, particularly where there are settlements, was, he admitted, a difficult problem to control. Some provision must be made for "reasonable growth" of such small centres—although he would not be drawn into a definition of what this might be—nor how existing special uses within the belt, industry for example, should be dealt with. By and large there was nothing in his remarks to suggest the firm support for drastic action which would have converted the cynics to greater confidence in the long-term success of the policy. So it remains to be seen how effective the new green belts turn out to be in practice. The experiment is a bold one and deserves a very fair trial. But we should be under no illusions about that to which we are now committed. If it succeeds in halting the sprawl of our cities no one really knows what either the immediate or the long-term effects will be—although there is at least a good chance that it could bring about the decentralization that we need so badly. The most serious weaknesses are that the whole policy seems to be negative and restrictive, and that in the form proposed the green belts will be too narrow to be really effective. The chance of its ultimate success would be far greater if it were to be combined with a series of large-scale positive decentralization proposals for both new and expanded town development, to be pushed forward at the same time as the squeeze is put on further outward expansion. If it were possible for the decentralization schemes to include a series of new motorways linking new and old development together, and with the depth of the restricted area increased so that it becomes a green zone rather than a green belt, there would be little doubt of its success.

The problem of the conurbations can never be solved by further restrictions alone, no matter how rigidly they are applied or how necessary they may be. Everyone is agreed that the position is urgent now. It will certainly become far worse very soon unless definite action is taken to plan for new decentralized development on a much larger scale than has been done up to now. If this is not done then the green belts cannot hope to survive, and their failure will be a severe blow to proper urban development in this country.

10.144 design: building types

LABORATORY DESIGN

Laboratory Design. Survey of space and services requirements in two agricultural research laboratories. R. Llewelyn Davies and J. W. Nightingale, Division for Architectural Studies, Nuffield Foundation, and Norman T. J. Bailey, Design and Analysis of Scientific Experiment, University of Oxford. (Nature. Nov. 26, 1955.)

Results of a pilot survey of 232 scientists and assistants at work. Findings show that assistants need rather more bench space and sink draining board space than scientists (*i.e.*, scientific and experimental officers). Assistants need 8 ft. of draining board and scientists only 5 ft. For bench space required see table below, which should be read on the assumption that 95 per cent. satisfied time is a feasible condition where space economy is critical.

Report also touch on water and electricity supply, drainage and illumination.

Bench-length required for Various Groups of Scientists and Assistants

No. of Scientists	No. of Assistants	Proportion of Time that the Bench-length will Satisfy the Group's Requirements 95%	96%	97%	98%	99%
		ft.	ft.	ft.	ft.	ft.
1	0	10·4	11·0	11·6	12·4	13·7
	1	18·0	18·6	19·5	20·6	22·3
	2	25·1	25·9	26·9	28·2	30·3
	3	31·7	32·8	33·9	35·4	37·8
2	0	15·9	16·6	17·5	18·8	20·6
	1	22·9	23·8	25·8	26·2	28·4
	2	29·7	30·7	31·8	33·4	35·8
3	0	20·8	21·7	22·8	24·2	26·4
	1	27·5	28·5	29·7	31·3	33·8
4	0	25·4	26·4	27·6	29·3	31·8

INFORMATION CENTRE

INDEX FOR 1955

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1955, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, *not later than May 14, 1956. This form will not be acknowledged.*

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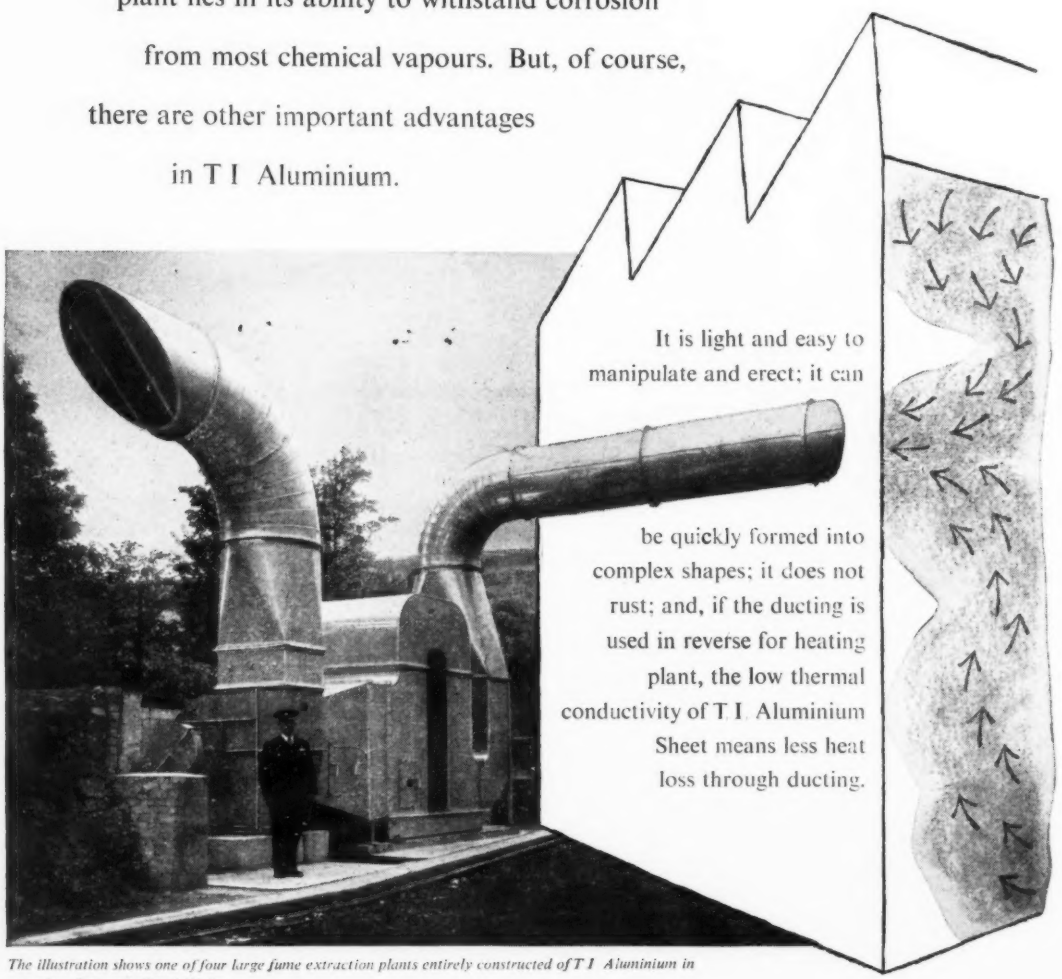
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FILE THIS WEEK

This is the first laboratory to be illustrated in the new JOURNAL *series of detailed descriptions—complete with costs—analyses of buildings. This article must therefore be filed for future reference. Once the* JOURNAL *has been unpinned the process is easy. The article fills most of the sixteen-page unit. You have only to cut off the opposite page (which forms part of your information centre files) and you are left with a complete fourteen-page article on this interesting building.*

building illustrated

Hostel and laboratories at Pershore, Worcs

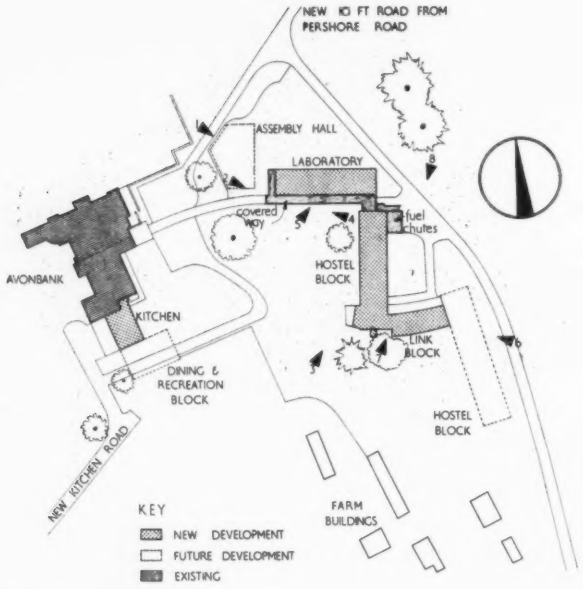
HOSTEL and LABORATORIES

at PERSHORE, WORCS, for the WORCESTER COUNTY EDUCATION COMMITTEE
designed by RICHARD SHEPPARD and PARTNERS
assistant architect DEIRDRE DOWNER
consultants (structural) T. F. BURNS and PARTNERS; (electrical) W. T. HOOKER
quantity surveyors E. C. HARRIS and PARTNERS

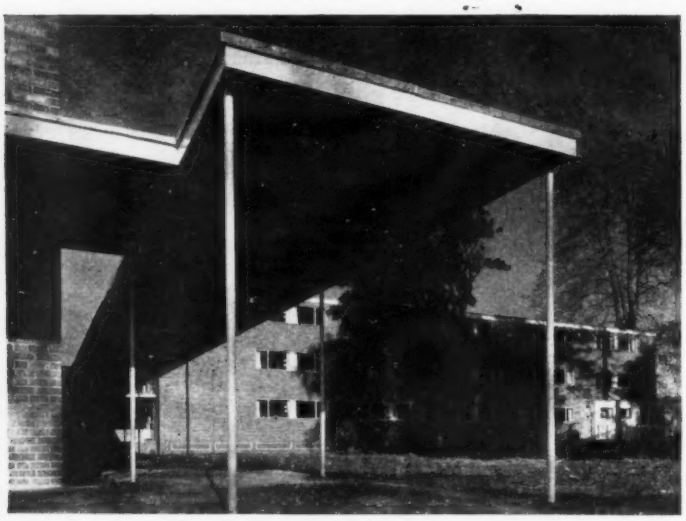
The purpose of the Institute was to provide a comprehensive course in Horticulture by means of research laboratories and teaching areas, in conjunction with hostel accommodation for the full-time resident students. The County Education Committee worked in close association with neighbouring counties and cities, and with the Ministry of Agriculture in forming the requirements. Three units of the ultimate accommodation have so far been completed. They comprise the two-storey laboratory and classroom block, a three-storey hostel block and a single-storey link unit, which will eventually connect with a second hostel block. An assembly hall will complete the ultimate group. As an existing building was to be retained for administrative and staff purposes, the new development had to be grouped nearby.

Viewpoint 1: the north side of the laboratory block.





Key plan showing photographic viewpoints



Above (viewpoint 2): the west end of a covered way, which will later extend to the original house. It is framed up out of timber and supported on steel columns. The roof is covered with felt and flashed at its verge with zinc. Below the covered way can be seen the hostel wing, which is constructed of load bearing cross party walls, at 10 ft. 1½ in. centres, made from 6-in. concrete blocks, with 6-in. thick pre-stressed pre-cast beams and hollow pot floors, forming the first and second levels.

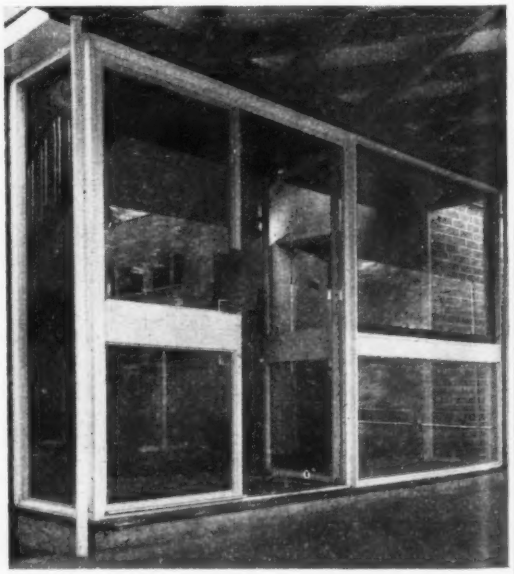
The four horizontal panels at ground level provide cross ventilation to the basement boiler house. Top right (viewpoint 3): the timber faced projection of the staff flat accommodation, which continues so well in plan the link block on the opposite side of the building, is less effective in reality.

All window surrounds, which are in hardwood, are painted white and the metal opening lights are painted dark red. The semi-engineering brick used is pointed with silver grey cement mortar and imparts a general silver grey quality





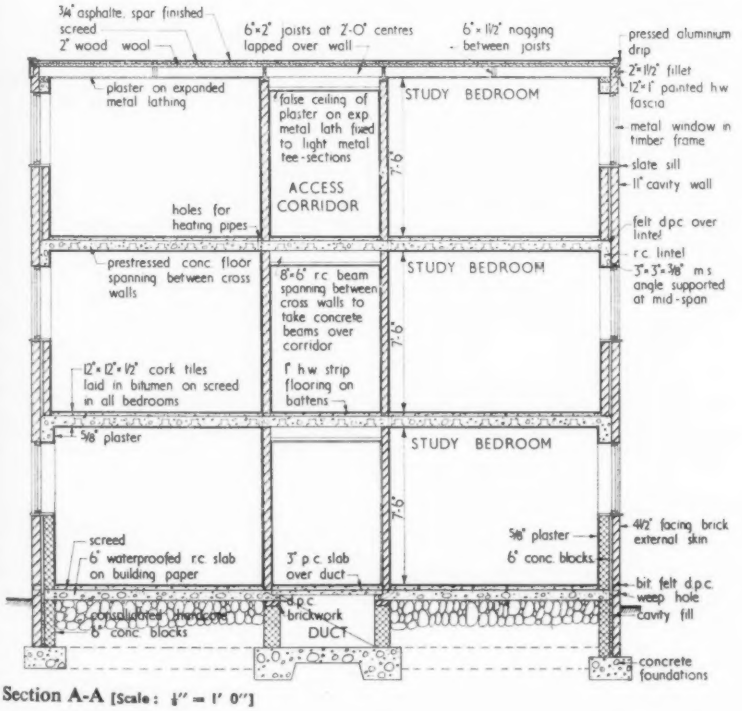
to the brickwork. The siting of the various elements has made excellent use of the existing trees, creating a pleasant collegiate atmosphere. Above (viewpoint 4): looking back past the laboratory block towards the original house. As large clear spans were required in the laboratories and teaching areas, in contrast with the cellular requirements of the hostel wing, a steel frame was used at 12 ft. 4 in. centres, spanning 24 ft. 0 in. and carrying at first floor level, a pre-stressed pre-cast concrete beam and hollow pot floor.



Viewpoint 5: This detail of the projecting entrance bay to the laboratory wing shows the metal doors, painted white, and set in their wood surrounds.



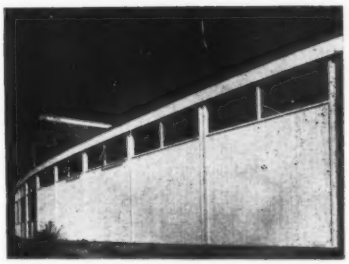
Plans, hostel [Scale : 1/32" = 1' 0"]



Section A-A [Scale : ½" = 1' 0"]

The north staircase in the hostel block is built around the boiler flue, the outer-skin of which is in concrete and is integral with the staircase. The covered way will eventually be extended from the west end of the laboratory block to the administrative and staff centre in the existing house. This access terminates at its eastern end, where it forms a covered, but unglazed, link between the hostel and the laboratory wing.

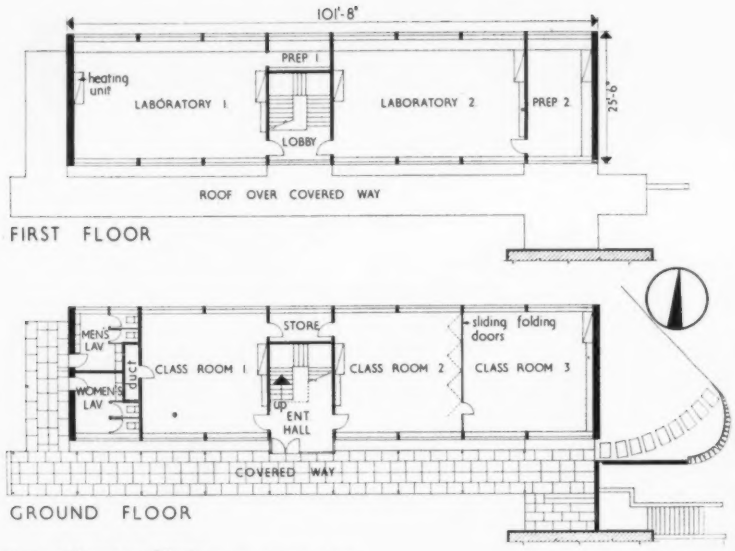




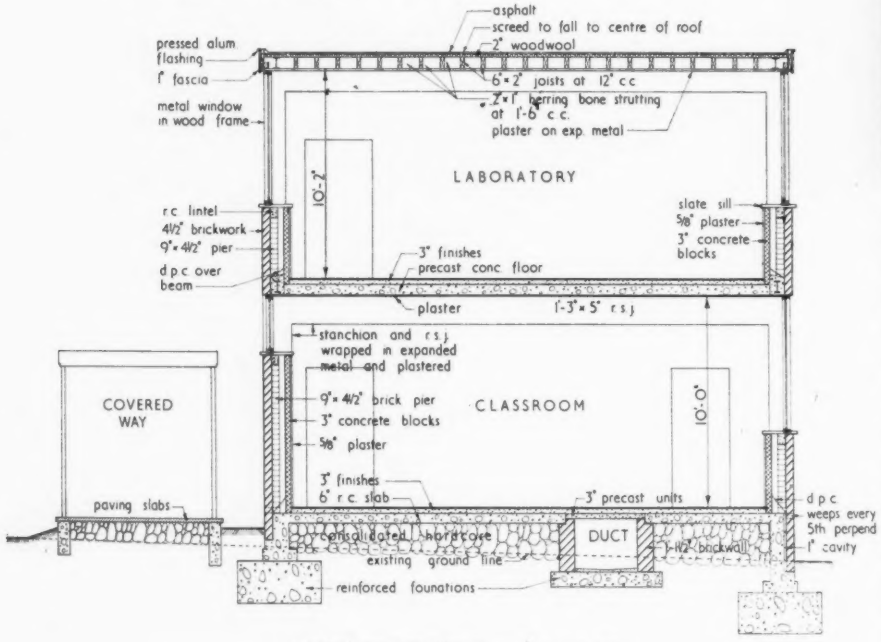
Top (viewpoint 6): the single-storey link unit curves westwards to the south end of the hostel wing. It contains the students' common room, cloakroom, and cycle storage. The construction is of box stanchions, made up from two 3-in. × 1½-in. steel channels and R.S.J. beams. The south elevation has vertical hardwood boarding, painted white, within hardwood frames, which are bolted to the box stanchions. These panels are backed with breeze blocks plastered. The end wall is 11-in. cavity Uxbridge flint brickwork, whilst the roof is of 3-ply roofing felt carried on screeded woodwool slabs and timber joists. The roof of the open-sided cycle storage is supported on 2-in. diameter mild steel tubes. The close-up (above) of the boarding in the hardwood frames also shows the metal opening windows, which are painted dark red. The boxed stanchions are covered externally with ¾-in. boards rebated into the frames either side.

HOSTEL and LABORATORIES

at PERSHORE, WORCS.
designed by RICHARD SHEPPARD and PARTNERS

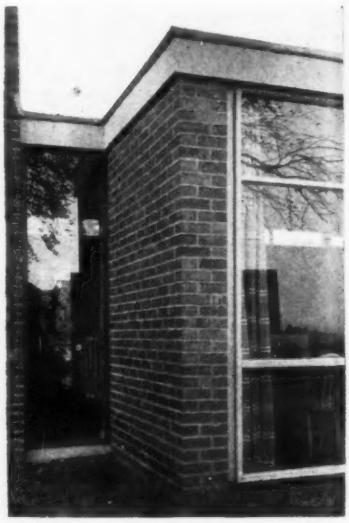


Plans, laboratory block [Scale: $\frac{1}{32}$" = 1' 0"]



Typical cross section [Scale: $\frac{1}{8}$" = 1' 0"]

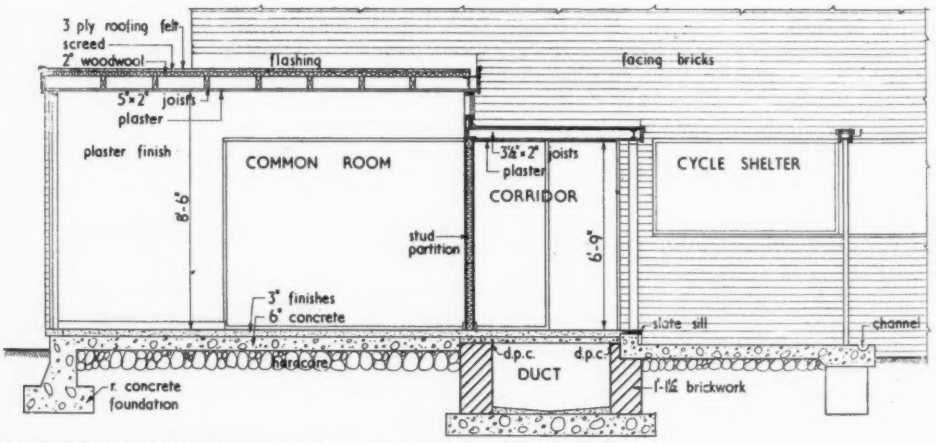
Classrooms 2 and 3 are separated by a sliding folding partition, enabling the conversion of the 2 rooms into a lecture hall, which must serve until the assembly hall is built.



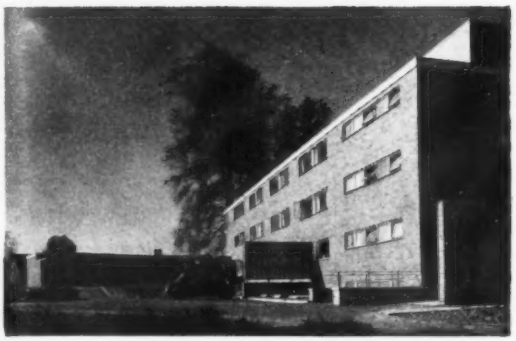
Above (viewpoint 7): this window forms the junction of the brick unit and the hostel wing. It lights a 3 ft. 0 in. wide greenery cell between the common room and the entrance hall of the hostel. Opposite page, top (viewpoint 8): from the north-east showing the hostel wing and the open-sided cycle storage in the link unit. A flight of concrete steps leads down between the dwarf walls to the basement boiler house. There are three fuel chutes in the area just beyond these steps, which are visually obscured from the link block by the slatted wooden screen. On the roof of the hostel, the storage tanks and the boiler flue are enclosed within a tank house clad externally with vertical boarding.

HOSTEL and LABORATORIES

at PERSHORE, WORCS.
designed by
RICHARD SHEPPARD
and PARTNERS



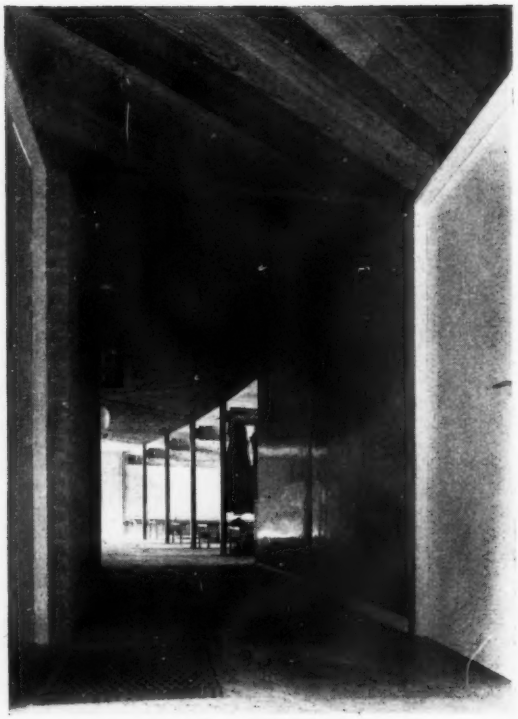
Section I-I through link block [Scale: $\frac{1}{32}$" = 1' 0"]



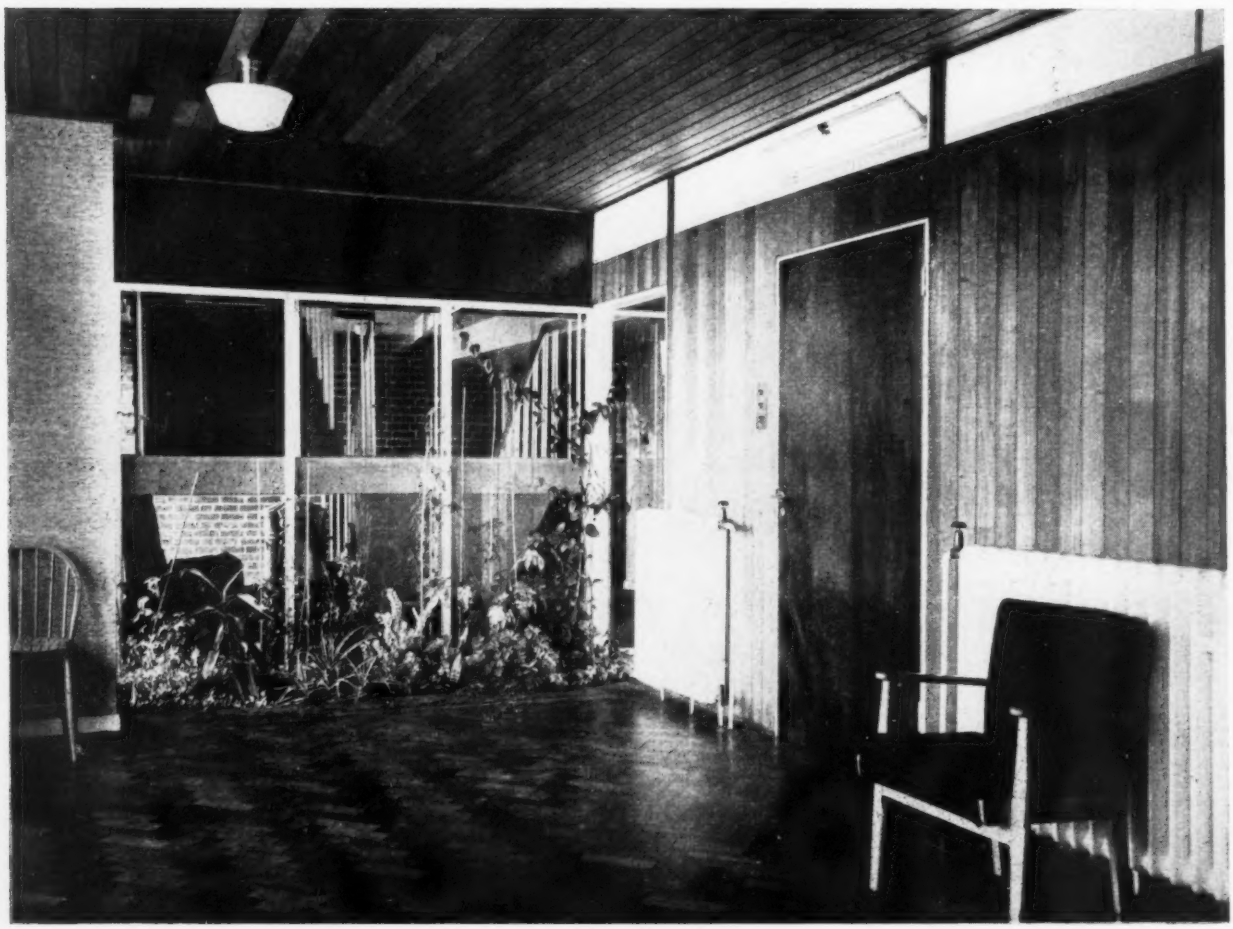
Below: this photograph was taken in the south entrance hall of the hostel wing, looking into the link unit. The greenery cell can be seen below the staircase, which is of reinforced concrete, rendered in sand and cement and with Hornton stone treads. The hardwood handrail is supported on round steel balusters. The floor in the entrance hall is also of Hornton stone paving, sealed and polished. The ceiling is finished with gypsum plaster.



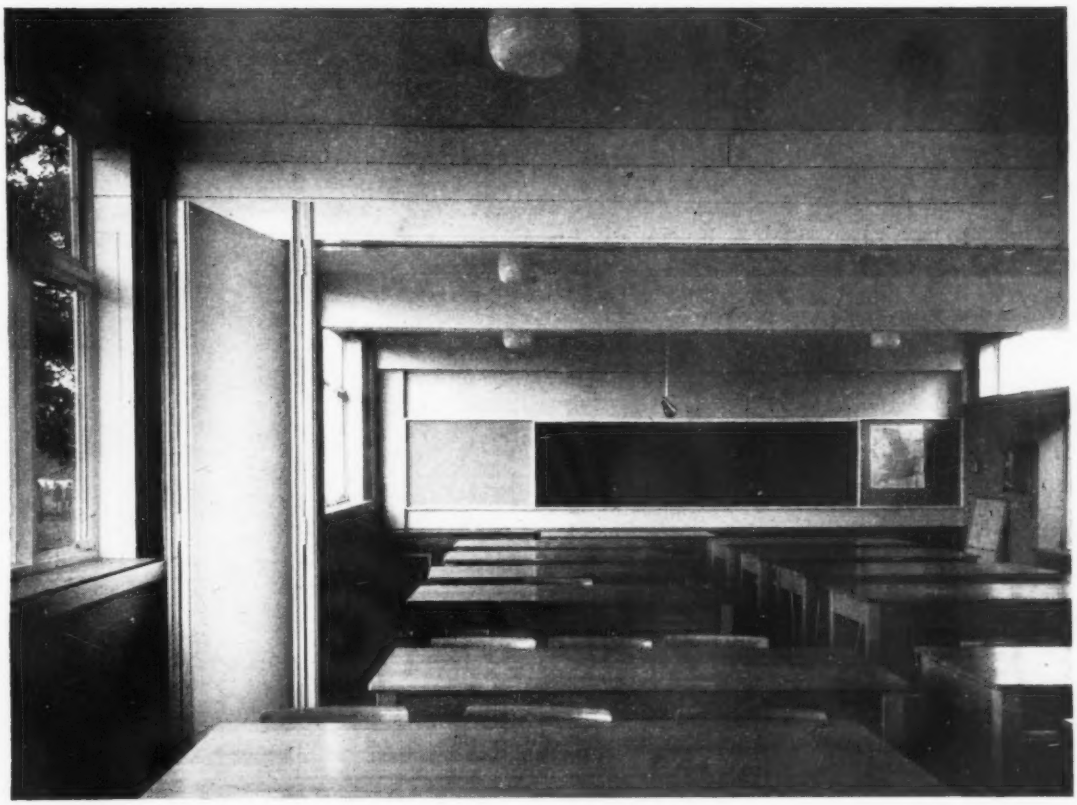




Right : the floors of the link unit corridor and cloakroom are finished with *in situ* coloured granolithic screed, laid in squares and then sealed. The corridor ceiling in red cedar boarding, is fixed diagonally to facilitate its curved shape in plan. The partition wall on the right, enclosing the common room is of timber studding fixed between the boxed stanchions; this is then covered with expanded metal and plastered. The boxed stanchions are left exposed and painted in the cloakroom area, where they are used to support coat hook boards. Above: the eastern end of the covered way, with an entrance into classroom 3 in the laboratory wing which is opposite the north entrance of the hostel wing. There is mural of glazed tiles fixed to the brickwork. Below: the students' common room with the staircase hall of the hostel block beyond.





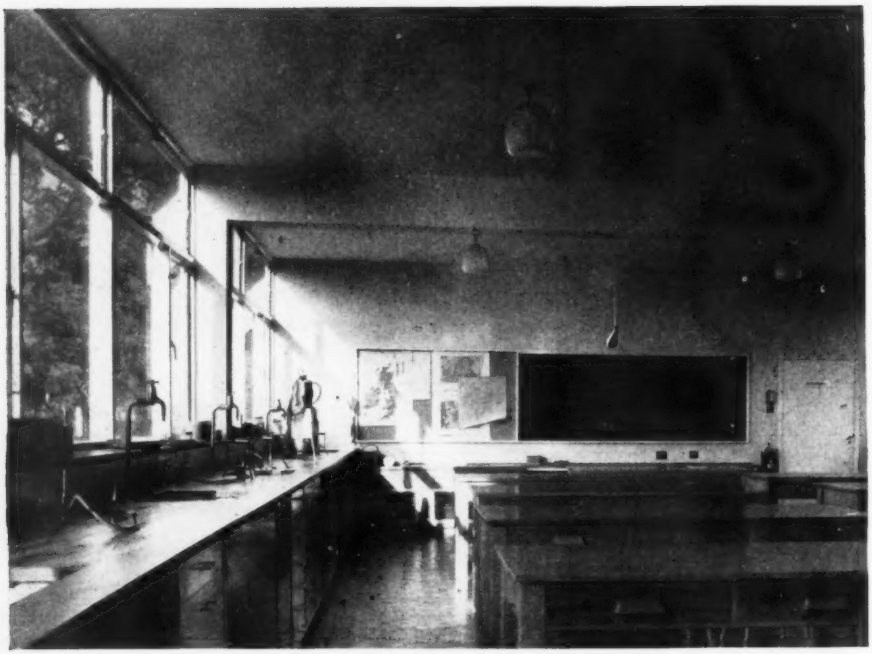


Top: the east end of the students' common room, with a rendered brick fireplace. Above: this view of classroom 3 in the laboratory block is taken from classroom 2 and shows the sliding folding doors opened, which enables the two classrooms to be used as one lecture room. The floors in the classrooms are finished with mahogany wood blocks. The walls and ceilings are plastered and finished with emulsion paint.

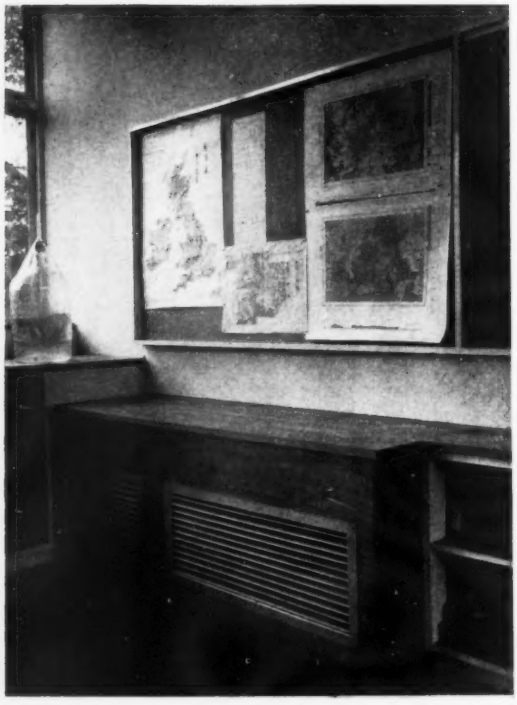
HOSTEL and LABORATORIES

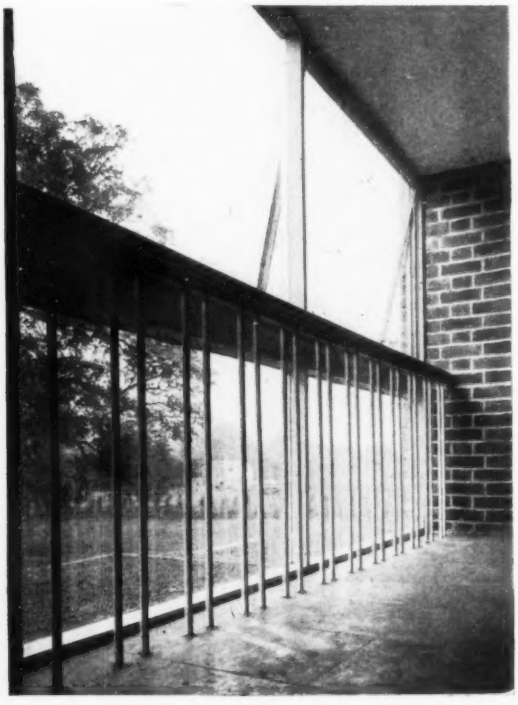
at PERSHORE, WORCS.

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Above: laboratory No. 2 on the first floor, looking north. The bench unit has a teak top, with ply-faced cupboard doors and drawers below. The floor is again mahogany wood blocks, and the walls and ceiling are plastered and finished with emulsion paint. The need has been felt in use of additional lighting directly over the bench. Heating is provided by the weatherfoil hot air cabinets at either end of the room. Below left: this photograph shows in close-up, one of the hot air heating cabinets, finished in polished mahogany, with metal louvres. This form of heating was chosen for the laboratory wing on the grounds of economy as it was correctly assumed that the heat only needed to be turned on 15 min. before the class assembled. In practice however this proved insufficient time to heat the insides of the cupboards, in the laboratories, and when the microscopes were brought out into the warm atmosphere, condensation made them unusable for a period. The heaters are now left on day and night. Below right: this detail photograph is taken on a landing in the hostel block. It shows the metal balustrading and handrail across the window, the lower panels of which are glazed with georgian wired glass.





HOSTEL and LABORATORIES

at PERSHORE, WORCS.

designed by RICHARD SHEPPARD and PARTNERS

CLIENT'S BRIEF: his stated requirements

Teaching areas and laboratories for research; practical teaching areas required for comprehensive course in horticulture; accommodation for students in form of study-bedrooms; flats for warden and caretaker; retention of existing house and some farm buildings; conservation of cultivatable land. The Education Committee worked in close association with neighbouring counties and cities and in full consultation with the Ministry of Agriculture. The purpose of the institute is twofold—it provides a centre for one-year residential courses in horticulture for young people, and also provides part-time agricultural and horticultural instruction for the area. It offers full opportunities for collegiate life in pleasant surroundings, and provides a variety of courses in allied subjects. The land itself is the most valuable teaching area.

SITE: topography, surroundings, access, planting

Bordering on the Evesham-Pershore road near the River Avon, in the Vale of Evesham, near the town of Pershore, with Bredon Hill nearby and good views of the Malverns to the south-west. The main entrance is from the Evesham-Pershore road; also minor road from this to houses and farm; secondary access from side road to farm and kitchen service yard. There are well developed trees on the site, particularly near existing house, which have generally been retained. Existing garden is in delapidated condition, but is gradually being restored by the institute. New car parks and paved areas link the new work with the existing buildings.

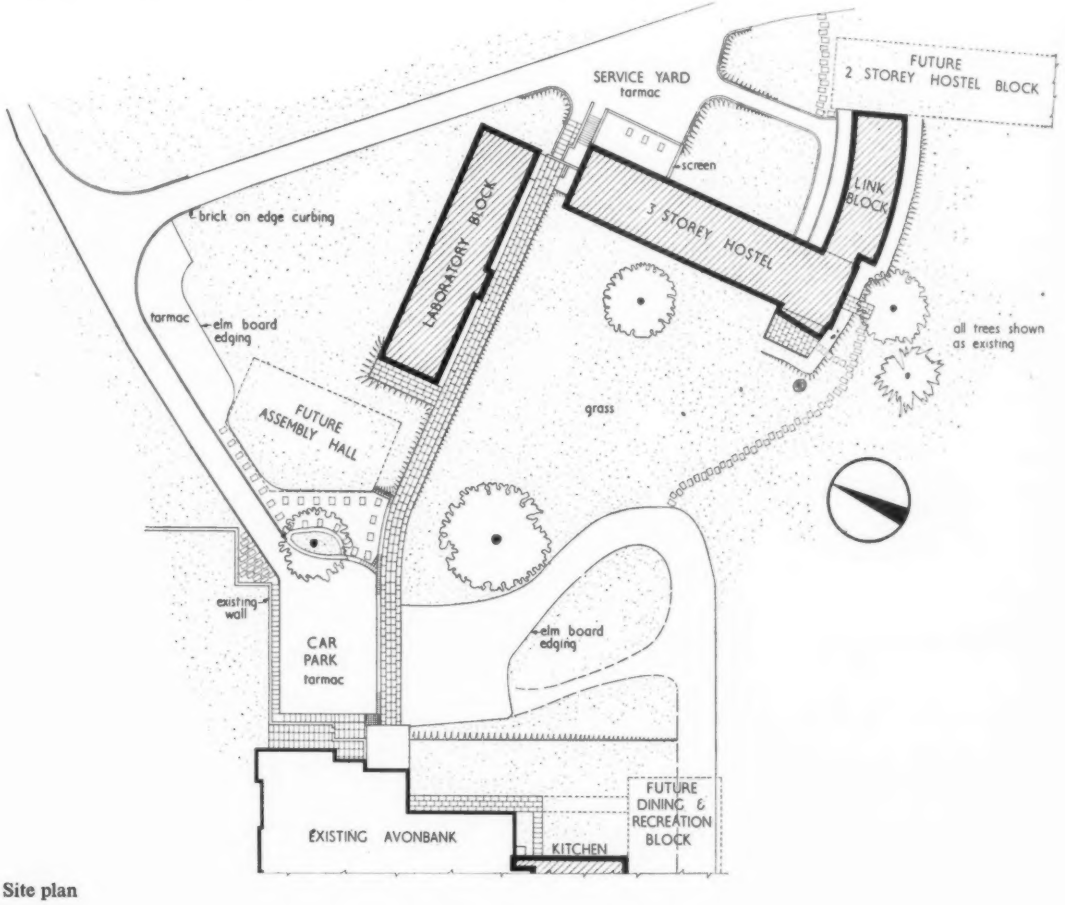
PLAN: general appreciation and relation of units

As the existing building (Avonbank) was being retained largely, after extensive internal alterations, for staff accommodation and administrative purposes, the new buildings had to be grouped near this. The area near the house is curtailed by the new farm road on the northern side and by existing farm buildings on the south. The aim was to create something of the collegiate atmosphere on more informal lines. The layout had, however, to be restricted also so that buildings did not occupy more valuable growing land than was necessary. The hostel block is planned with central corridor: 7-ft. 6-in. floor to ceiling heights in bedrooms; 6 ft. 9 in. in corridor giving good proportion and reducing cube and cost. Cupboards with prefabricated units in bedrooms. Services rise from one central corridor duct at ground floor level, in cupboards in all cases, which are placed on corridor wall for this reason; minimum pipe runs for heating only required. North staircase built round boiler house flue and tank room at roof level also taken round flue. Flue (outer skin in concrete) and stairs built together.

The laboratory is planned to give maximum light and room in minimum space: with two classrooms which can be turned into lecture room until such time as assembly hall is built. Cloakrooms arranged so that they can be incorporated into small crush hall when assembly hall is built. All services in ducts can be extended when time for future extensions comes. Boiler house also was designed to cope with future extension. The hostel block has east or west aspect to study bedrooms and good views; linked by covered way to laboratory block with north/south aspect. When assembly hall is built this covered way will then extend across to existing house. Hostel has at the south end a curved single-storey block containing students' common room and cloakrooms which also will serve as a link to the future hostel block. New kitchens adjoin existing house and eventually there will be a new dining/recreation room block also adjoining kitchen.

MAIN CONSTRUCTION: general appreciation

To reduce costs load-bearing brickwork was decided on for the main structure: it was also considered that rich coloured brick—dark red if possible—would be in pleasant contrast to the landscape.



Site plan

Cost note: These figures shown below apply to the original tender and are applicable to the laboratory, hostel, link block and covered way only

	cost per sq. ft.	s	d
	preliminaries and insurances	2	11⅞
	contingencies	0	11¼

STRUCTURAL ELEMENTS

Work below ground floor level: foundation type, basement	*Location*	*Materials*	*Finish*	*Reasons and comments*
Strip foundations	Boiler house and hostel	Concrete; asphalt membrane, semi-engineering bricks	Fair faced brick	Asphalt membrane necessary owing to heavy soil and high water table. Brick efficient and economical
Concrete base to stanchions	Laboratory	R.c.		

work below ground floor level 8 5½

External walls and facings	*Location*	*Materials*	*Finish*	*Reasons and comments*
11-in. cavity wall and 13½-in. solid	Hostel	Brindle semi-engineering bricks	Weathered joint in silver grey cement mortar	Rich blue brindled brick in contrast with landscape. 1st class brick with excellent weathering properties. Light pointing accentuated colour of brick. Link block mainly in timber to give effect of lightness between 2 blocks built in brick
13½-in. solid; 4½-in. infilling panel	Laboratory	Ditto	Ditto	
9-in. brick; timber panelling	Link block	Uxbridge flint-hardwood vertical boarding painted	Fairfaced internally. Panelling painted, with breeze inner skin	

external walls and facings 2 9¾

Frame or load-bearing element	*Location*	*Materials*	*Beam span*	*Column grid*	*Reasons and comments*
Load-bearing partitions	Hostel	6-in. concrete block	10 ft. 1½ in.		Economic as building consisted of a series of small rooms
Frame	Laboratory	Steel frame with brick infilling and solid end walls	25 ft.	12 ft. 6 in.	Large teaching areas required

frame or load-bearing element 3 0½

Cost note (*Structural Elements*): The fact that three different types of building, with regard to the basement, foundations, structure and external walling, are under review, has not been taken into account as the prices per foot super throughout refer to the complete scheme. Subdivided figures per foot super applicable to each individual block would not give a fair price in relation to the whole

Upper floor construction	*Location*	*Materials*	*Finish*	*Reasons and comments*
Pre-cast	1st and 2nd floor, hostel 1st floor, laboratory	Prestressed pre-cast beams, hollow pots	Screed with cork tiles on floors; plaster on ceiling	Speed of erection; economical; no expensive shuttering; cork tiles reduce sound transmission

upper floor construction 3 0

Cost note: This figure does not include screeding and floor finish

Staircases	*Location*	*Materials*	*Finish*	*Reasons and comments*
In situ Height: floor to floor 8 ft. 3 in. (hostel), 10 ft. 9 in. (laboratory). Width between landings: 4 ft. 6 in. (hostel), 5 ft. 0 in. (laboratory)	North and south end of hostel; central in laboratory	Reinforced concrete with stone treads only. Metal balustrades, timber handrail	Cement sand render to soffit and walls; f/f concrete string and risers; hard plaster skirting painted, recessed in relation to wall finish	Ease in maintenance; staircase built as brickwork proceeded

staircases 1 2⅜

Cost note: Includes finish to treads and also balustrading and handrails

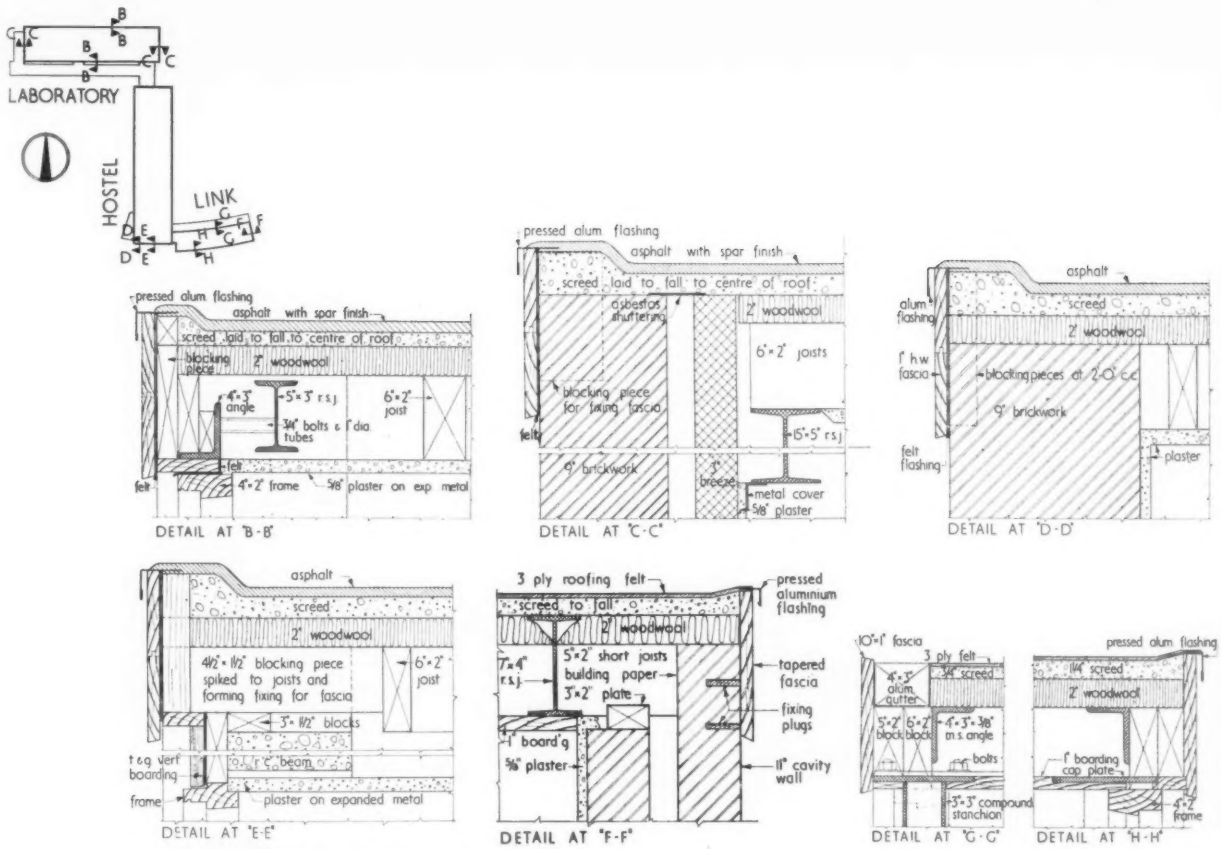
Roof construction	*Location*	*Materials*	*Finish*	*Reasons and comments*
Flat: with slight fall to centre to drain to down pipes	Hostel, link block	Woodwool on timber joists with steel main beams in link block and laboratory only	Asphalt on screed generally, but felt in link block; plastic ceilings, boarding in link block only	Economical; good insulation

roof construction 2 8⅛

Windows	*Location*	*Materials*	*Finish*	*Reasons and comments*
Fixed, single glazed	Hostel, laboratory, link block	Timber mainframe (hardwood)	Painted	Mainly aesthetic
Opening, single glazed	Ditto	Metal subframe	Hot dipped galvanised, painted	

windows 5 0⅞

Cost note: Paint excluded; includes external doors, as these are integral part of windows generally



Key plan and details of eaves [Scale: 1" = 1' 0"]

					s	d
External doors	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Solid	Link block	Vertical boarding	Oiled and polished			
	Laboratory	Flush ply	Painted			
Glazed	Hostel and laboratory	Metal frame and subframe in timber surround	As windows, timber painted	To provide light in corridors and lobbies; also for aesthetic reasons		
				included under windows		

Glazing	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Windows	Generally everywhere	32-oz. and 29-oz. clear glass	Clear			
Windows	Bathrooms and cloakrooms	Obscured	" Borealis " pattern	Lobby doors—internal—have georgian wired glass for fire prevention reasons		
				glazing: windows and external doors only	**0**	**5½**

PARTITIONING

Internal partitions	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Load bearing	Hostel, laboratory and link block	6-in. concrete block and 4½-in. block	Plaster			
Non-load-bearing	Hostel, laboratory	3-in. breeze	Plaster			
	Link block	Steel frame, stud partition	Plaster and vertical boarding			
				internal partitions: load bearing	**1**	**4½**
				non load bearing	**0**	**4⅞**

Screens	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Sliding folding	Classrooms 2 and 3 in laboratory block	Solid flush panels as flush door	Painted ply	Screen required to divide 10 classrooms which occasionally would be required as larger lecture room, particularly until assembly hall built		
				screens	**0**	**4½**

					s	d
W.c. doors and partitions	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Precast	Laboratory cloakrooms	Terrazzo partitions 1½-in.	Polished	Cleanly, and no maintenance required		
Solid doors (flush)	Hostel bathrooms	Ply with timber core (BSS)	Painted			
				w.c. doors and partitions	**0**	**3¾**

Internal doors	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Flush	Hostel; laboratory; link block; all rooms	Timber core with ply finish	Painted	Lobby doors in hardwood oiled and polished with georgian wired glass panels for fire prevention and prevent light obstruction		
				internal doors	**1**	**3⅜**

Ironmongery to internal doors	*Location*	*Materials*	*Finish*	*Reasons and comments*		
	In all rooms to all blocks	Aluminium	Satin anodized	Good appearance, good fixing		
				ironmongery to internal doors	**0**	**4⅜**

FINISHINGS

Floor finishes	*Location*	*Materials*	*Finish*	*Cost per sq. yd.* s. d.	*Reasons and comments*		
Wood strip	Corridors, hostel	Seraya	Sealed and polished	40 0	Good wearing does not deteriorate so rapidly with hard usage		
Wood block	Common room; class rooms; laboratory	Mahogany	Sealed and polished	35 3			
Tiles	Study bedrooms	Cork	Sealed and polished	38 0			
Tiles	Bathrooms and cloakrooms	Quarries	Oiled and polished				
Stone	Stairs and hallway	Hornton	Sealed and polished				
Concrete	Cloakrooms and stores	Coloured grano, some in in-situ squares	Sealed only				
					floor finishes	**4**	**3⅛**

Wall finishes	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Plaster	In all cases except staircase and halls	Gypsum plaster	Emulsion paint			
Fairfaced brick	Landings in hostel; corridor in link block	Facings as external walls and Uxbridge flints				
Rough rendering	Staircases	Cement and sand	Emulsion paint			
				wall finishes	**1**	**5⅞**

Ceiling finishes	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Plaster	In all cases except as shown below	Gypsum	Emulsion paint			
Fibre board	Cloakrooms					
Timber	Common room and adjacent corridor	Red cedar	Sealed to preserve colour			
				ceiling finishes	**1**	**2¾**

Decorations	*Location*	*Paint types*	*Munsell or other ref.*	*Colour scheme and comments*		
Flush doors and windows	Throughout	Hard gloss	Munsell range (LCC approved list) used extensively throughout	Study bedrooms—light colours generally with strong colour on small wall area only where recess is formed by cupboards. Bright colours in bathrooms and circulation spaces. Laboratory—light colours except on walls under windows		
Metal doors and windows	Throughout	Hard gloss				
Walls	Throughout	Emulsion				
				decorations	**1**	**2⅞**

FITTINGS

Cloakrooms	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Purpose made by specialists incorporating existing structure	Link block	Hardwood peg rails and seat. Galvanised cages for boots and shoes	Oiled and polished	Lighter in appearance than standard fittings; very much cheaper		
				cloakrooms	**0**	**4⅞**

Other fittings	*Location*	*Materials*	*Finish*	*Reasons and comments*	s	d
Laboratory benches	Laboratories	Teak tops Ply-faced doors	Oiled Painted	Designed by architects to client's requirements, made by contractors		
Desks and shelves	Study bedrooms	Tops Ply doors	Oiled Painted			
				other fittings	**4**	**11¾**

Cost note: includes paint, oiling, etc.

SERVICES

Rain water disposal	*Location*	*Materials*	*Finish*	*Reasons and comments*		
Rain water pipes	In stores in ducts throughout	Cast iron	Bituminous paint			
				rainwater disposal and sump drainage	**0**	**3⅜**

Plumbing internal: waste disposal	*Location*	*Materials*	*Finish*	*Reasons and comments*
One pipe system with anti-siphonage	Ducts in bath rooms in hostel; duct in store in laboratory; duct to manhole from ground floor	Galvanised wastes, some copper; deep seal traps in a few cases		

Hot water storage	*Location*	*Materials*	*Capacity*	*Reasons and comments*
Calorifiers	Boiler house in hostel			

Cold water storage	*Location*	*Materials*	*Capacity*	*Reasons and comments*		
Tank room	Roof of hostel and existing house	Galvanised tanks				
				plumbing internal	**4**	**0¼**

Heating installation: heat exchanger type	*Location*	*Criteria temp.*	*Air change rate*	*Reasons and comments*
Circulated hot air	Laboratories, classrooms and cloakrooms			
Radiators	Study bedrooms, bathrooms and common room			

Boiler type and capacity	*Location*	*Heat load and fuel type*	*Stoking method*	*Reasons and comments*		
Beeston boiler	Boiler houses under hostel	Beans or nuts, special grade	Underfed stoker	More economical to have two boiler houses in view of future extension		
				heating installation	**5**	**6⅛**

Drainage: As drainage applies to complete scheme and not only the buildings illustrated, figure would be purely arbitrary and has been omitted.

Electrical installation: source and fitting types	*Location*	*Illumination level*	*Quality*	*Reasons and comments*		
High tension only available, taken to transformer and to small sub-station	Eastern boundary of site			Cables taken in underground duct; overhead wires would have meant obstruction to cultivated land		
				electrical installation	**3**	**7⅛**

PAVED AREAS

Paved areas	*Location*	*Materials*	*Reasons and comments*		
Covered way	Between hostel and laboratory	Pre-cast standard paving slabs			
Paths	To hostel from drive and roadways generally	Pre-cast standard paving slabs			
Car park area	Between laboratory and existing house	Tarmac paving slabs, brick on edge			
			paved areas	**1**	**8⅜**

Cost note: The external works apply to the complete scheme. Any figure therefore assumed would give an incorrect or arbitrary answer. This figure applies to covered ways, and paving in buildings only

fire-fighting and lightning precautions	**1**	**0¼**
tankroom	**0**	**3¼**
boiler stack and flues	**0**	**6**
total net cost per sq. ft. of floor area	**65**	**4½**

THERMAL INSULATION

Type	*Location*	*U-value*	*Reasons and comments*
Wood wool on timber joists	Roof of hostel; laboratory and link block		
Glass silk in panel partition	Common room in link block		
Cavity brickwork generally	Walls to hostel and laboratory		

SPECIAL ACOUSTICAL TREATMENT

Sound absorption materials	*Location*	*Absorption coefficient*	*Reasons and comments*
Cork flooring	Bedrooms in hostel		

FIRE

Structural precautions	*Access for fighting*	*Means of escape*	*Reasons and comments*
Main staircase encased in brick with fire proof lobby doors. Steel frame encased in plaster	All buildings accessible from outside with external hydrant provided at central point	Staircases and doors	

TIME SCHEDULE

Drawings	7 months	Work commenced	September 1, 1953
Tender date	June, 1953	Work completed	January, 1955
Contract signed	August, 1953	Type of contract	RIBA with Bill of Quantities

RATIOS (applying to superstructure only)

Area of enclosing walls	14,647	Area of windows (including external doors)	4,748
Total floor area	15,408	Total floor area	15,408
Area of solid wall	9,899	Total roof area	7,616
Total floor area	15,408	Total floor area	15,408

COST ANALYSIS

Total ground floor area of superstructure	6,713	Tender cost of foundations and basement	£7,496 16s. 7d.
Total floor area (excluding basement)	15,408	Tender cost of ancillary buildings and external works	£1,546 17s. 3d.
Total floor area of basement	1,342	Gross total cost	£54,751 7s. 11d.
Storey heights of basement	11 ft. 0 in.	Cost per foot super of floor area including basement	£3 5s. 4½d.
Total depth of basement	10 ft. 9 in.	Cost per foot cube including basement	5s. 4½d.
Tender date	20.7.1953		
Tender cost of superstructure, installations and finishings	£5,707 14s. 1d.		

COST COMMENTS

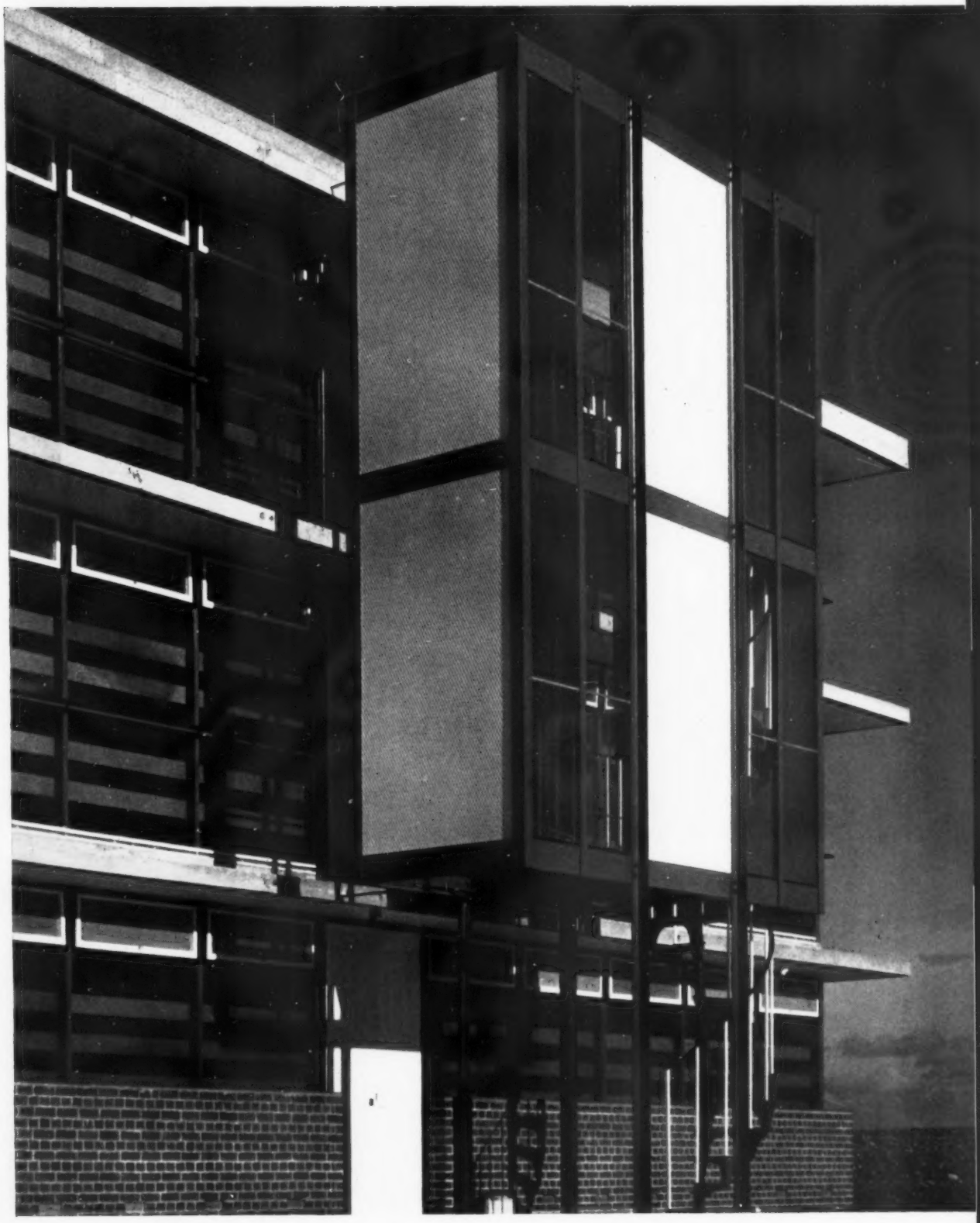
This cost analysis is typical of those jobs which have been composed of composite units of differing construction. One other such scheme was the Vale of Leven Hospital (AJ, November 3, 1955). The cost note inserted in the commentary after the structural elements applies equally to the differing types of construction contained in other elements and this statement needs examining in the light of the use to which this analysis may be put. What can the architect or surveyor glean from a cost per foot super embracing so many unknown factors, apart from a very general idea of the overall cost of the elements in question (obtained by multiplying the cost per foot super by the total floor area)? How, for instance, could this analysis be used in order to arrive at a fair estimate of the proposed future development? To use the overall foot super or foot cube cost based on the tender figure would obviously be inaccurate because the present contract carries a considerable amount of the main services installation which will serve the proposed extension, e.g., ample service ducts, boilers and boiler houses adequate for future commitments, complete drainage scheme, etc. This and other general questions will be discussed in a general review of cost analyses to be published in the near future.

CONTRACTORS

Laboratory and Hostel Block, Institute of Horticulture, Pershore, Worcestershire (pages 417-430). *General Contractors:* Wheeler & Mansell Ltd. *Sub-contractors (structure): Asphalt:* Neuchatel Asphalte Co. Ltd. *Concrete blocks:* Edwin H. Bradley & Co. Ltd. *Bricks (Marston commons):* Pratt (Watford) Ltd. *Stone, artificial:* Alexandra Stone Co. Ltd. *Special roofings:* Wheeler & Mansell Ltd. and Neuchatel Asphalte Co. Ltd. *Roofing felt:* Wm. Briggs & Sons Ltd. *Tiles and slates:* Broadbent's (Leicester) Ltd. *Partitions:* Mosaic & Terrazzo Pre-cast Co. Ltd. *Glass, patent glazing:* Merrick & Heath Ltd. *Wood block flooring:* Hollis Bros. Ltd. *Structural steel:* Matthew T. Shaw Ltd. *Patent flooring:* Korkoid Decorative Floors Ltd. *Sub-contractors (equipment): Central heating boilers:* Weatherfoil Heating Systems Ltd. *Gas fixtures and fittings:* 'Bottogas,' Ronald S. Lightfoot. *Electric wiring, bells, clocks:* Booth & Bomford Ltd. *Plumbing:* Wheeler & Mansell Ltd. *Door furniture:* Alfred G. Roberts Ltd. *Casements, window furniture:* Monk Metal Windows Ltd. *Sanitary fittings:* Timmins & Foulkes Ltd. *Sub-contractors (decorations and specialities): Plaster:* T. R. Hitchins Bros. and J. R. Brookes Ltd. *Decorative plaster:* J. R. Brookes Ltd. *Joinery, school fittings:* H. F. Tottle & Sons Ltd. *Stonework:* Hornton Quarries Ltd. *Slate sills:* Bow Slate & Enamel Co. Ltd. *Tiling:* Venetian Flooring Co. *Furniture:* Worcestershire Education Committee. *Sun blinds:* Tidmarsh & Sons. *Shrubs and trees:* Institute of Horticulture, Pershore. *Cloakroom fittings:* A. J. Binns Ltd. *Lifts:* Hammond & Champness Ltd. *Paint:* Blundell Spence & Co. Ltd. *Tarmac:* Constable Hart & Co. Ltd.

CLADDING TO ESCAPE STAIRS: SEED WAREHOUSE AT WITHAM, ESSEX

Chamberlin, Powell and Bon, architects



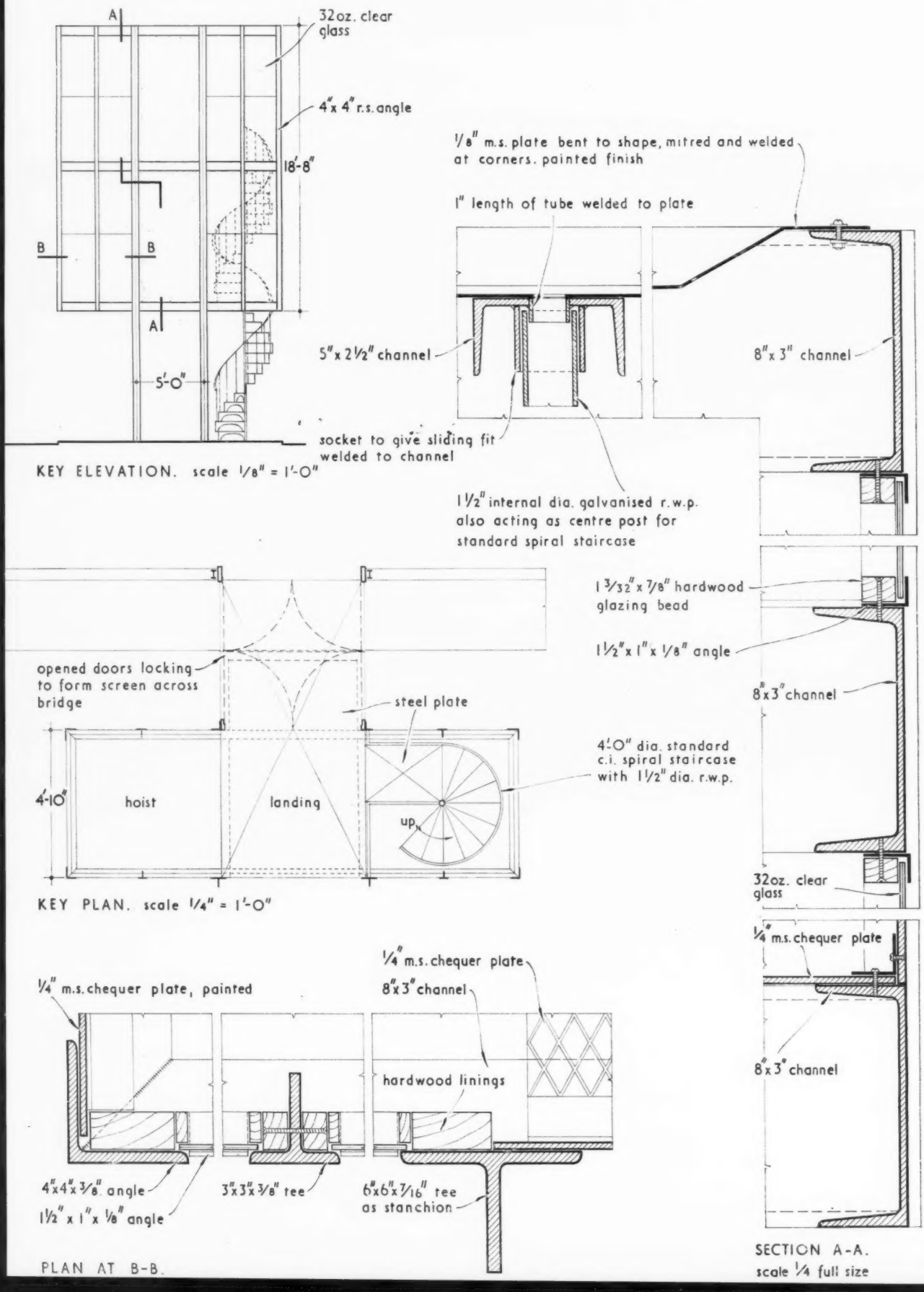
The enclosure protects hoist, stairs and landing : its form was dictated by the need to separate the enclosure from the warehouse building so that the former cannot act as a flue in case of fire. Solid panels of steel plate serve as bracing in place of the more usual diagonal struts or ties and are designed to withstand swinging or leaning sacks. The structural metalwork is shot-blasted, chromate-sprayed and painted four coats.

working detail

WALLS AND PARTITIONS: 30

CLADDING TO ESCAPE STAIRS: SEED WAREHOUSE AT WITHAM, ESSEX

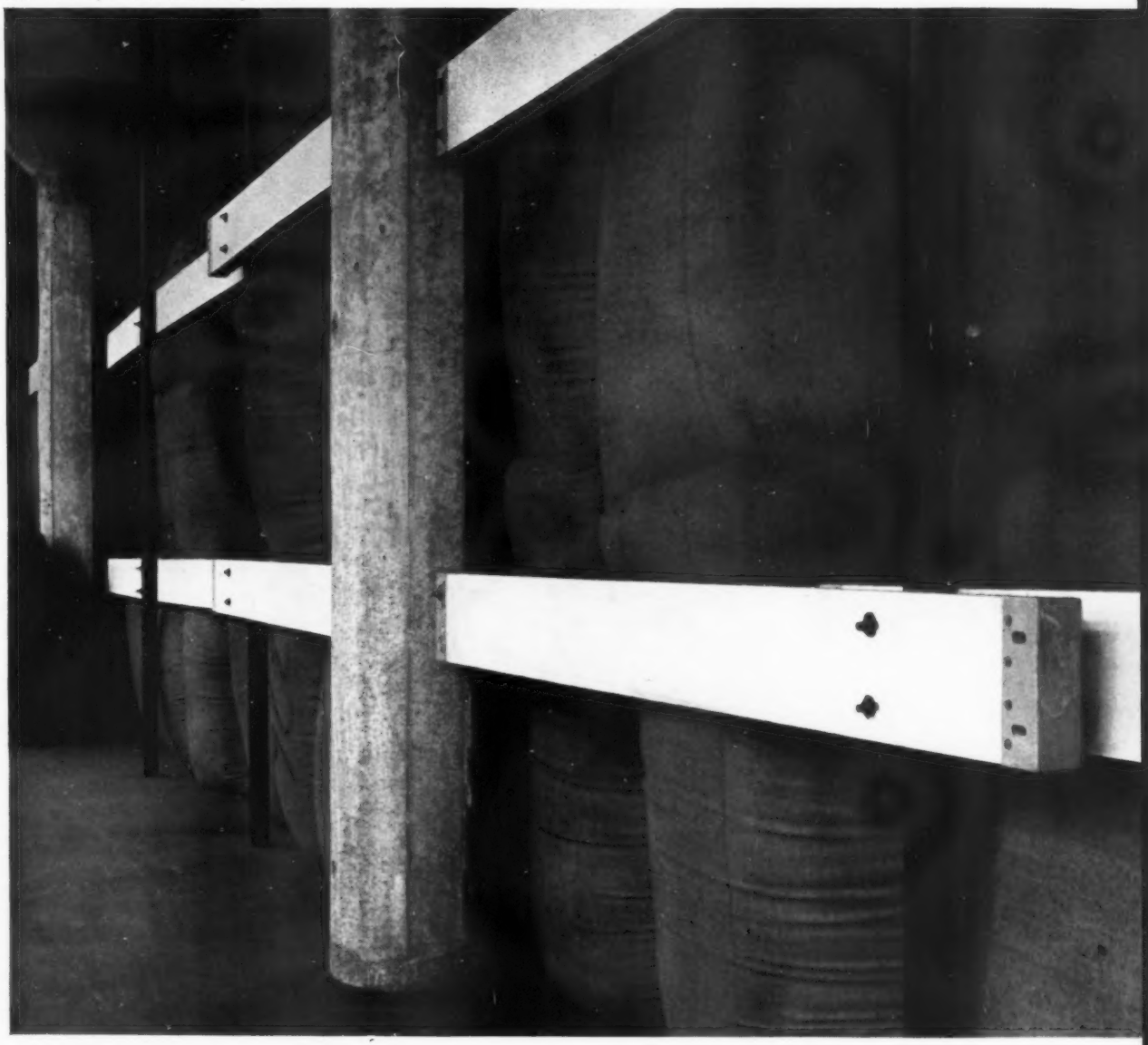
Chamberlin, Powell and Bon, architects



working detail

MOVABLE PARTITION: SEED WAREHOUSE AT WITHAM, ESSEX

Chamberlin, Powell and Bon, architects

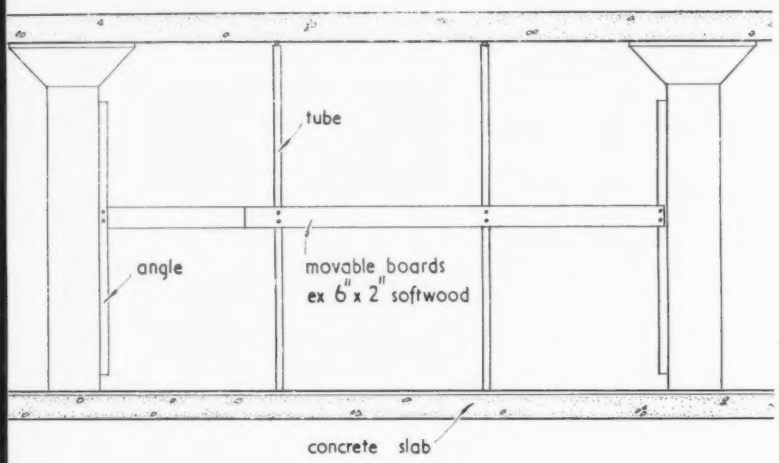


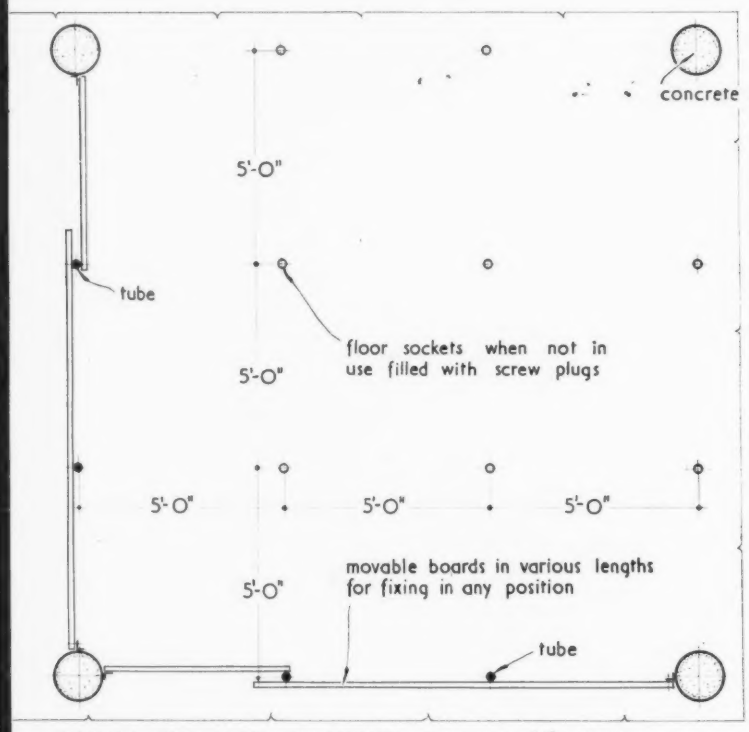
The problem was to provide a robust system of partitioning which would be strong enough to support heavy sacks of seeds, would allow maximum ventilation and would enable the users to re-allocate their floor space rapidly and at will. The architects have met the problem by building sockets into the structural floor and ceiling on a five-foot grid covering the entire factory floor. The tubular steel uprights which fit into these sockets are standard, and the horizontal bars (which are bolted to the uprights) have to be stocked in four lengths to allow every possible combination. Where these bars abut a concrete column they are bolted to mild steel angles which in turn are secured to bolts built-in to the columns.

working detail

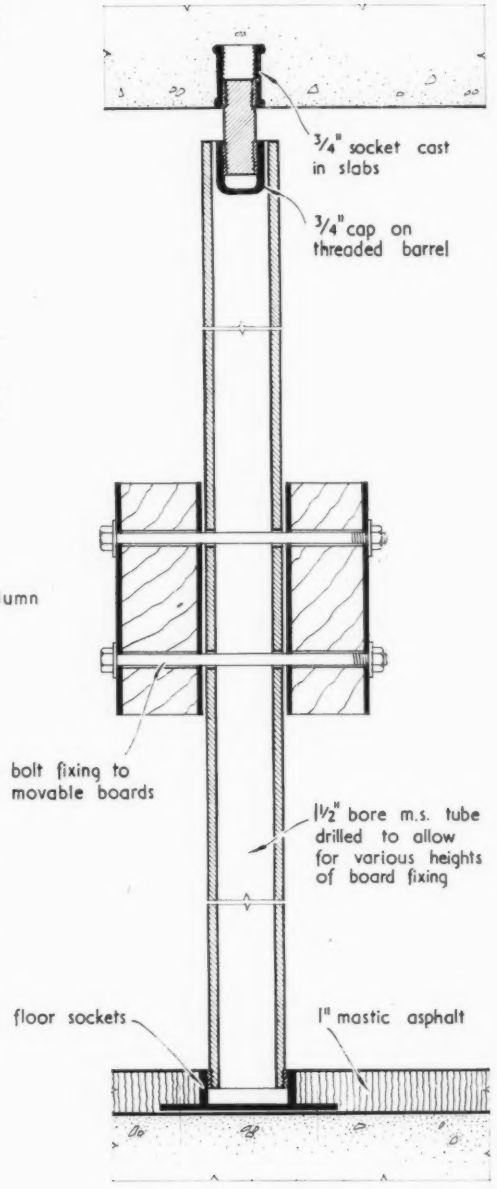
MOVABLE PARTITION: SEED WAREHOUSE AT WITHAM, ESSEX

Chamberlin, Powell and Bon, architects

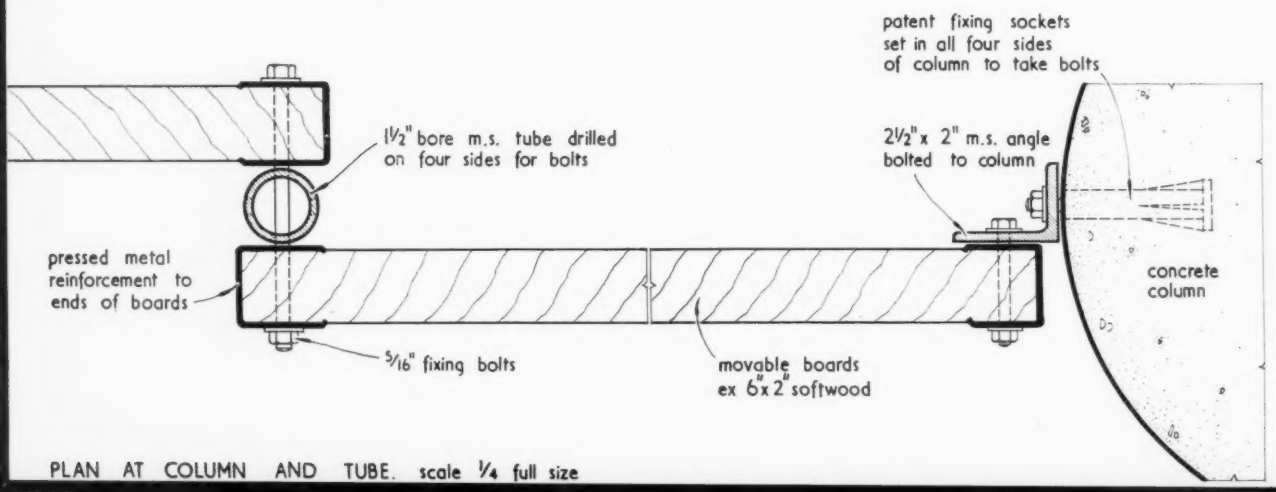




SECTION AND PLAN OF TYPICAL BAY scale ¼" = 1'-0"



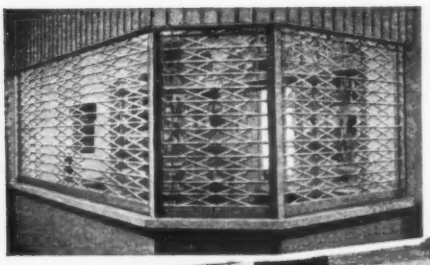
SECTION OF TUBE. scale ¼ full size



PLAN AT COLUMN AND TUBE. scale ¼ full size





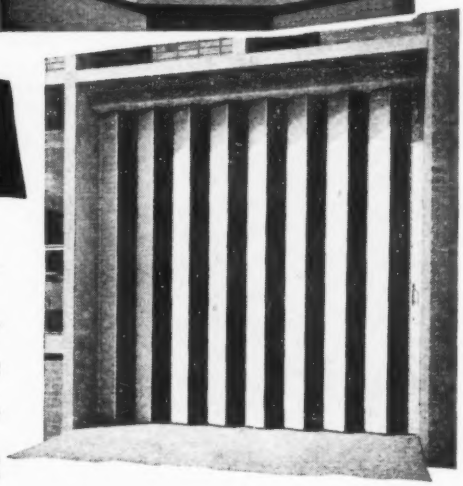




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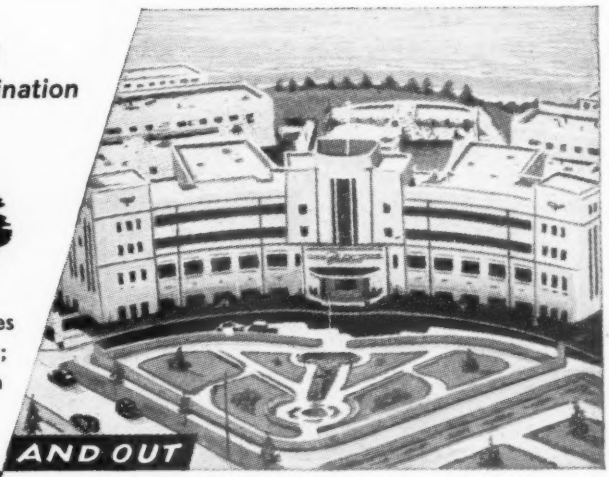
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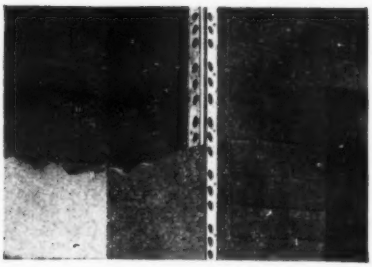


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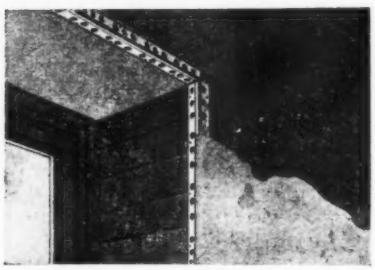
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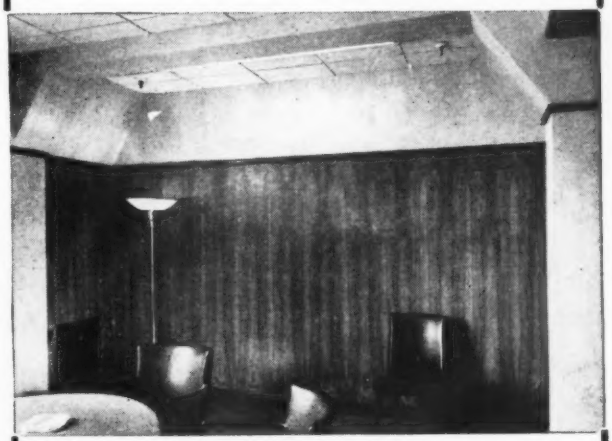
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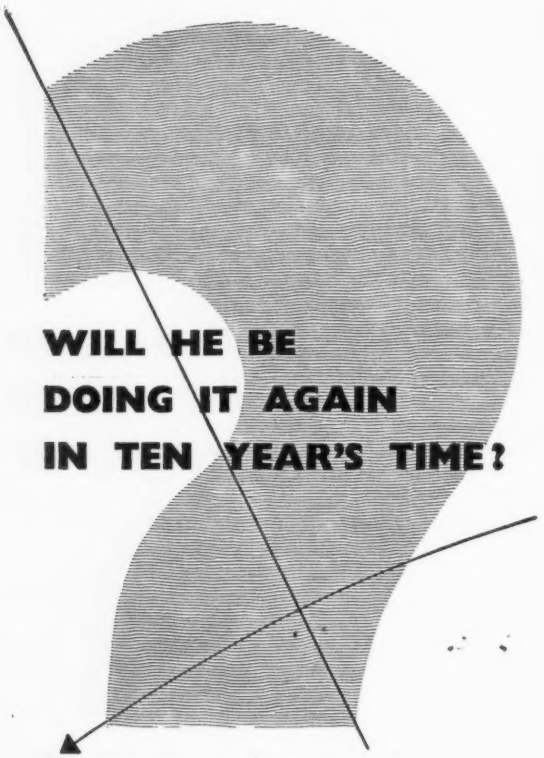
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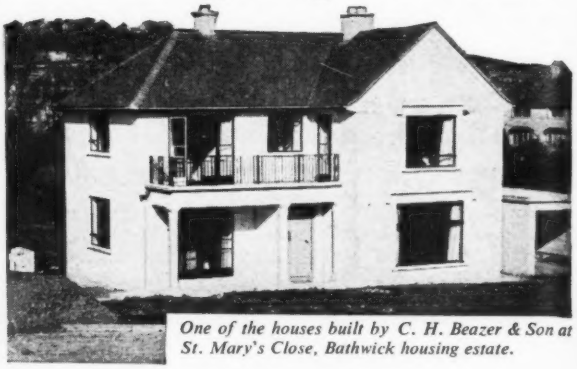
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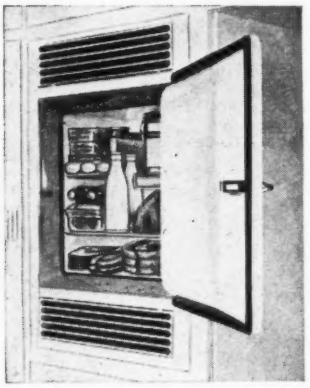


Photo shows M.151 installed at St. Mary's Close Estate. The refrigerator is built-in at waist height for convenience.

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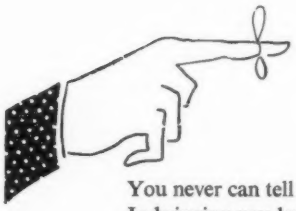
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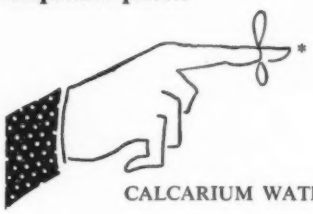
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In bringing you hate or love,
For thoughts are things, and their airy wings
Are swift as a carrier dove.
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And they speed o'er the track to bring you back
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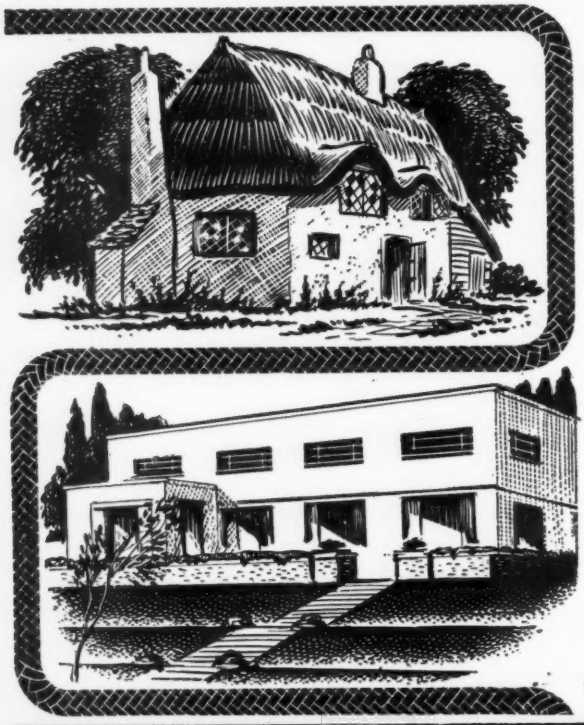
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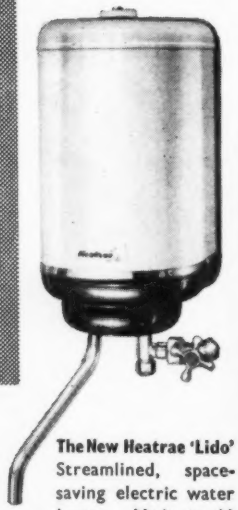
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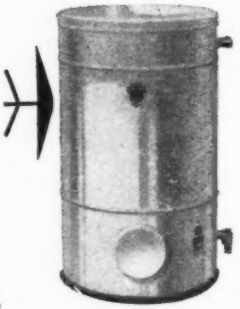
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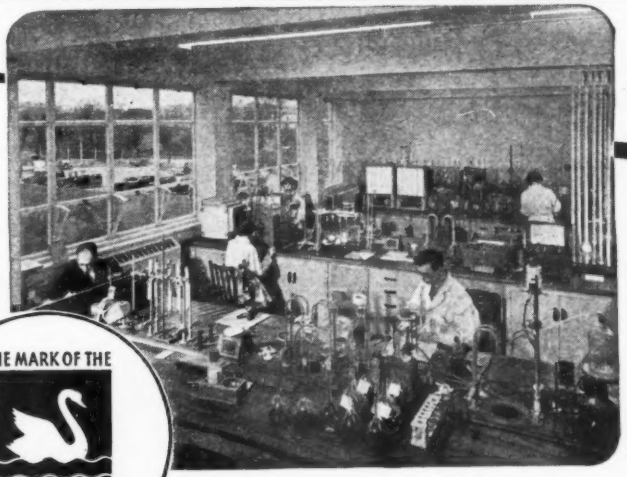
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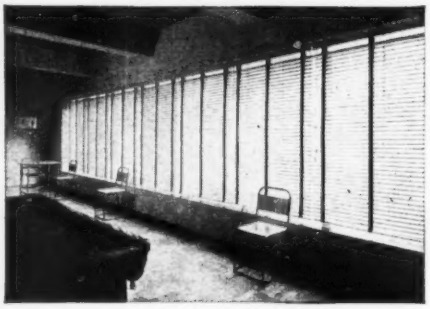


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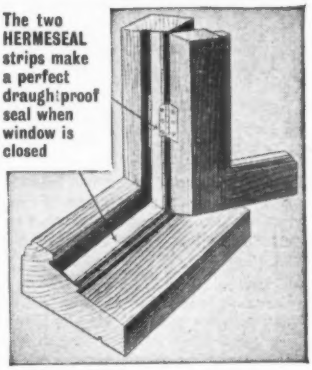
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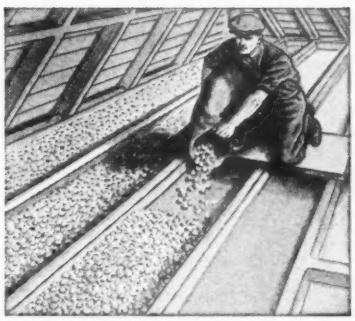
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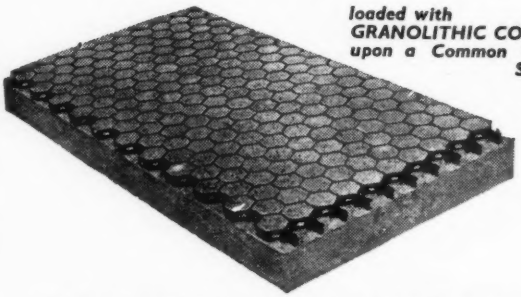
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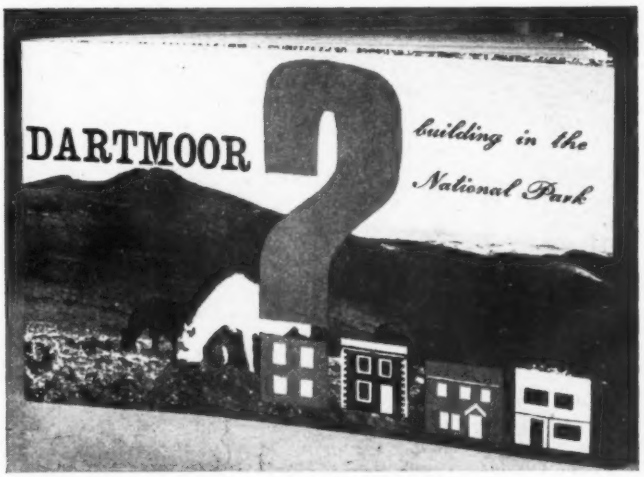
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Size 8¼ ins. by 5⅝ ins. 64 pages with over 80 illustrations in line and halftone, maps showing Administration and Geology of Dartmoor and a colour chart. Price 5s. net, postage 6d.

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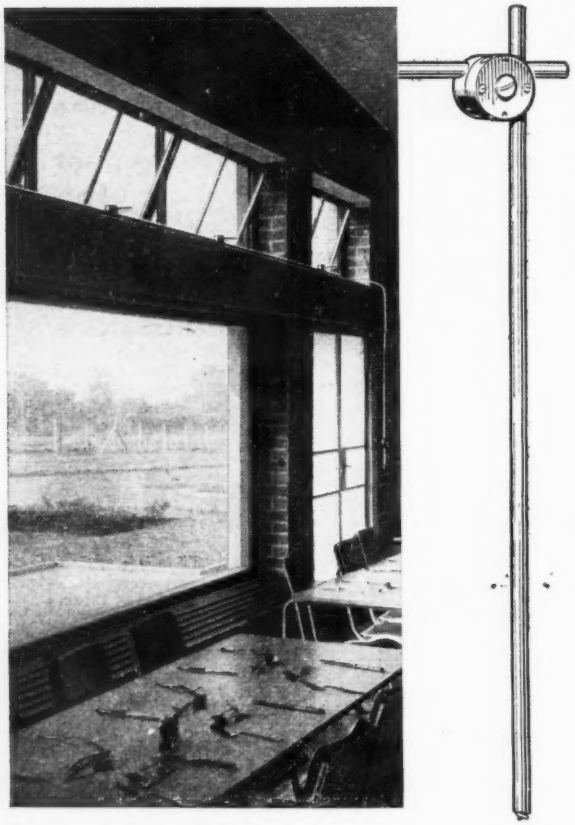


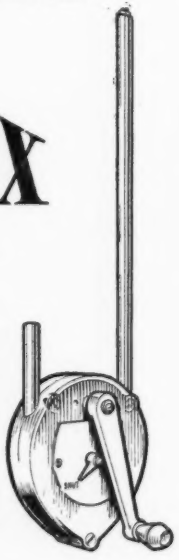
Illustration shows part of the canteen at the Administration and Design Office of W. J. Fraser & Co. Ltd., at Harold Hill, where Teleflex Remote Controls were used for window operation.

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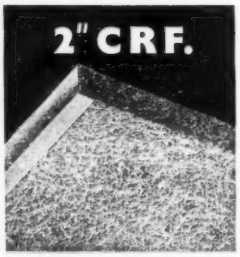
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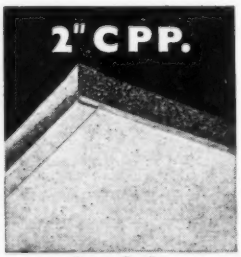
EVERY Architect knows that roofs, in most cases the largest single continuous surface in a building, demand the most careful attention. In the past, the Architect chose the roof structure and would frequently have to conceal its unsightly appearance from within. Although this great sound reflecting surface also provided the easiest path for heat losses, *additional* cost made the use of thermal insulators or sound absorbants a luxury.



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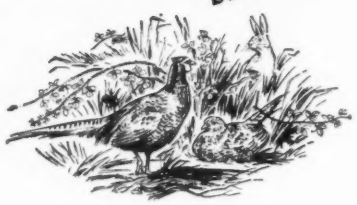
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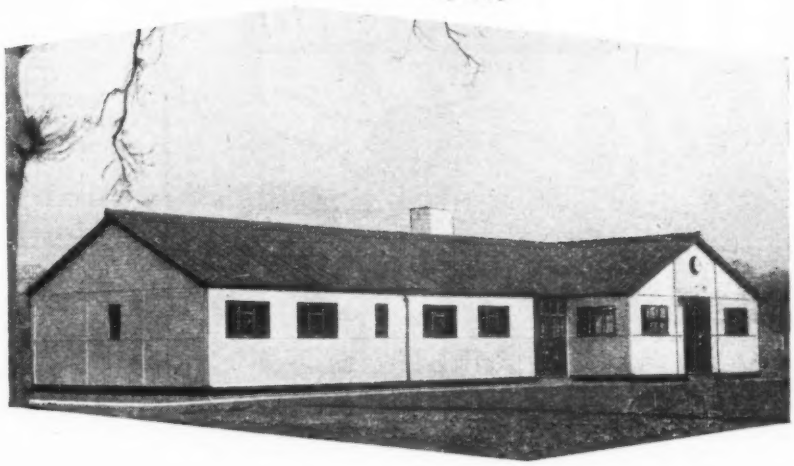
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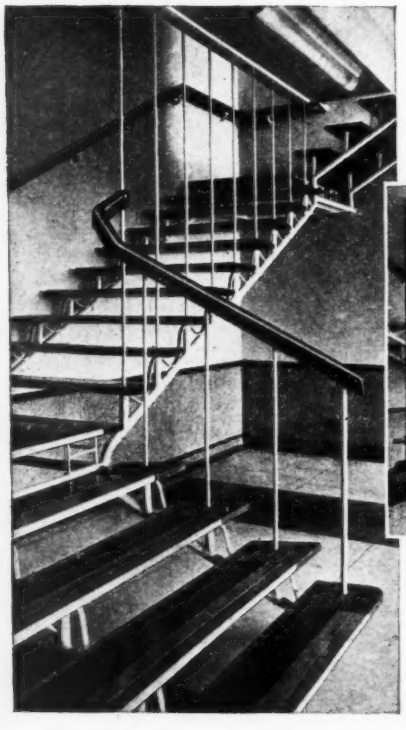
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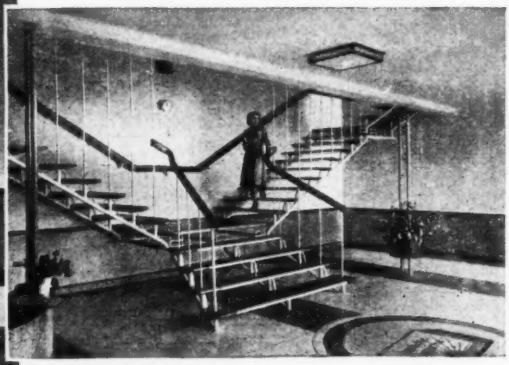
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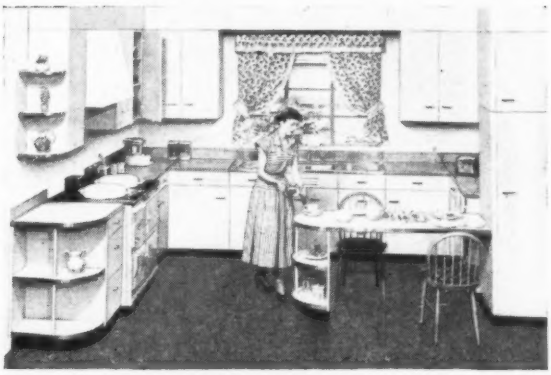
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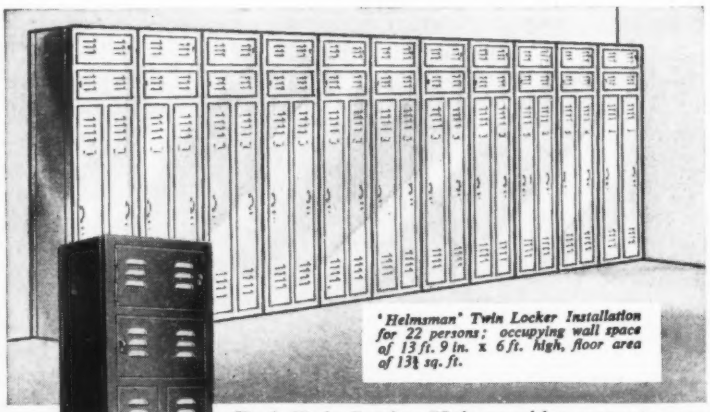
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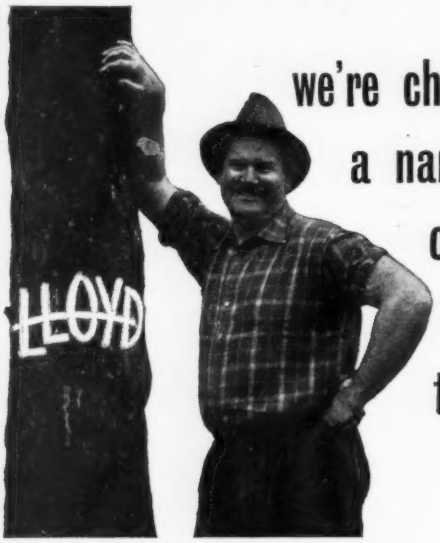
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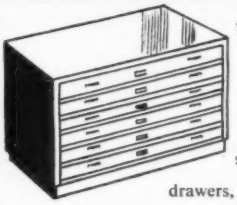
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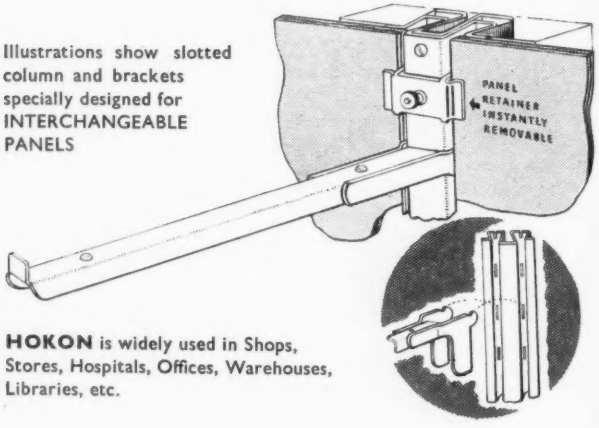
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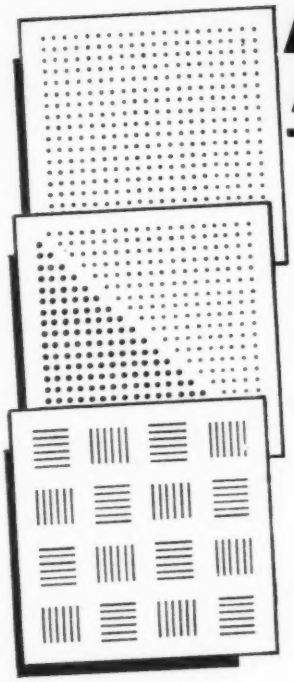
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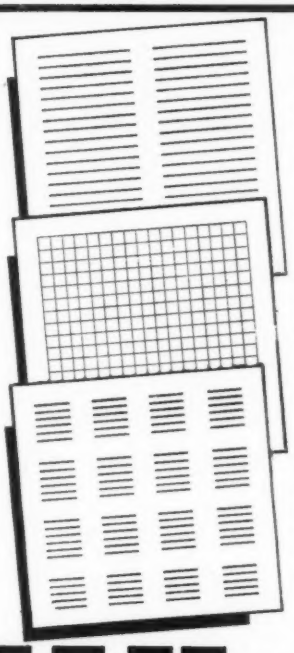
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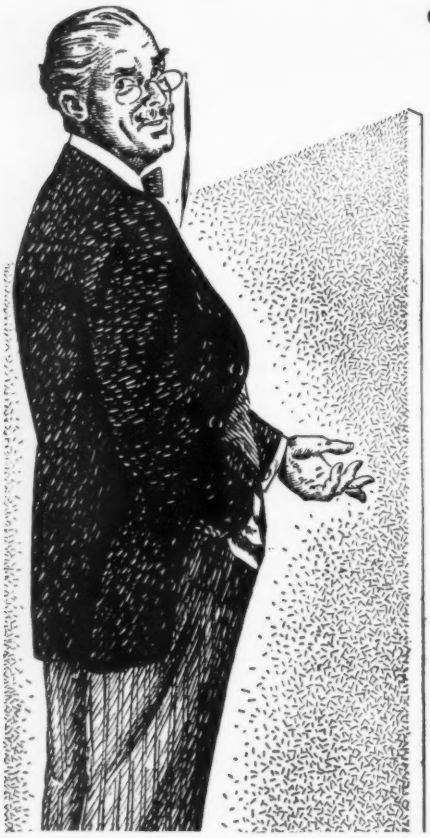
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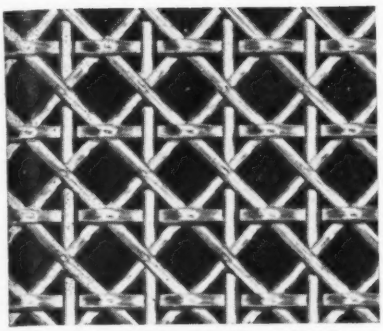
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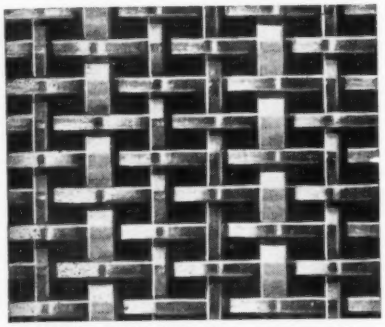
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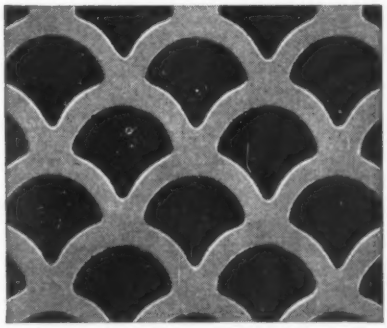
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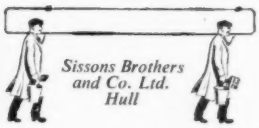
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

Public and Official Announcements

23s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

Applications are invited for:—

(*a*) ARCHITECTURAL ASSISTANT (PERMANENT), Grade A.P.T. II, *i.e.*, £595—£675 p.a.; (*b*) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY), Grade A.P.T. IV, *i.e.*, £710—£885 p.a., plus London weighting in both cases, 21-25 years £20 p.a., 26 years and over £30 p.a. Candidates for (*a*) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with a local authority; (*b*) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works, and capable of supervising large building contracts. The Council is unable to provide housing accommodation for either of these appointments. Further particulars and form of application available from the undersigned, which when completed must be returned as soon as possible.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall, Hayes, Middx. 3712

BOROUGH OF LUTON
TECHNICAL STAFF

Applications invited for:

(*a*) SENIOR QUANTITY SURVEYING ASSISTANTS. Salary A.P.T. V (£795—£970). Fully qualified, preferably R.I.C.S., with experience of taking off, abstracting and billing for large contracts and settlement of final accounts.

(*b*) JUNIOR QUANTITY SURVEYING ASSISTANT. Salary, General Division to A.P.T. IV (£180—£885) according to qualifications and experience.

(*c*) ARCHITECTURAL ASSISTANT. Salary, General Division to A.P.T. IV (£180—£885) according to qualifications and experience.

N.J.C. Service Conditions. Application forms from Borough Architect, Town Hall, Luton, returnable by 12th May, 1956.

In the case of (*a*) housing accommodation may be available.

A. D. HARVEY,
Town Clerk.

9656

HOLLAND COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of QUANTITY SURVEYOR, A.P.T., Grade V (£795 to £970). Applicants should be Members of the R.I.C.S. (Quantity Surveying Sub-Division).

Application forms may be obtained from L. Barlow, Esq., A.R.I.B.A., County Architect, County Hall, Boston, Lincolnshire, and should be returned to the Clerk of the County Council not later than 28th May, 1956. 9526

METROPOLITAN BOROUGH OF CAMBERWELL
DEPARTMENT OF DIRECTOR OF HOUSING AND BOROUGH ARCHITECT

(*a*) SENIOR ASSISTANT ARCHITECT, A.P.T. V (£825—£1,000 inclusive of £30 London weighting), or VI (£910—£1,110 inclusive), or VII (£1,005—£1,230 inclusive).

(*b*) ASSISTANT ARCHITECT, A.P.T. IV/V (£740—£1,000 inclusive of £30 London weighting).

(*c*) JUNIOR ASSISTANT ARCHITECT, A.P.T. III (£670—£795 inclusive of £30 London weighting).

Qualification required: Posts (*a*) and (*b*) A.R.I.B.A., Post (*c*) R.I.B.A. Intermediate Examination or its equivalent followed by a minimum of one year in an architectural office. Grade and commencing salary according to qualifications and experience. No housing provided. Work of department includes design and construction of public buildings, housing estates, including multi-storey construction. Application form from Town Clerk, Town Hall, S.E.5. Closing date 7th May, 1956. 9590

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE

Applications are invited for the post of ASSISTANT ARCHITECT on the staff of the Buildings Officer and Architect. Salary in the scale £750×£30—£840 p.a. The post is superannuable. Duties may include work on buildings for teaching and research, students' hostels, staff residences, general purpose buildings and services. Applicants must be Registered Architects. Further particulars may be obtained from the Registrar, The College, Keele, Staffs, to whom three copies of application giving full details of age, qualifications, experience, etc., and names of three referees, should be sent within 10 days of publication of this advertisement. 9614

CARDIGANSHIRE COUNTY COUNCIL

Applications are invited for the following vacancies in the County Architect's Department, County Hall, Aberayron:—

(*a*) SENIOR QUANTITY SURVEYOR (A.P.T. Grade VI-VII, £880—£1,200).

(*b*) ARCHITECTURAL ASSISTANT (A.P.T. Grade II-III, £595—£765).

(*c*) ARCHITECTURAL ASSISTANT (A.P.T. Grade I-II, £530—£675).

Candidates for (*a*) must be Associate Members of the R.I.C.S. (Quantities), and (*b*) and (*c*) have passed the Intermediate Examination of the R.I.B.A.

Commencing salary according to qualifications and experience.

Application forms, obtainable from the County Architect, must be returned to the undersigned by not later than 14th May, 1956.

J. E. R. CARSON,
Clerk of the Cardiganshire County Council.

Swyddfa'r Sir, Marine Terrace, Aberystwyth.
18th April, 1956. 9798

DERBYSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Vacancies for ARCHITECTS—salary range £690 to £970—on grades Special, IV and V of the National Joint Council A.P.T. scales. These three grades are merged to provide a continuous progression to the maximum of Grade V subject to satisfactory service. Commencing salaries in accordance with experience and qualifications. Pensionable posts. Canvassing disqualifies.

Details and application forms from F. Hamer Crossley, Dipl.Arch.(L'pool), F.R.I.B.A., County Architect, County Offices, St. Mary's Gate, Derby. 9799

CITY OF MANCHESTER
HOUSING DEPARTMENT

Applications are invited from suitably qualified persons for the following appointments:—

ASSISTANT ARCHITECTS, A.P.T. IV, £710—£885 p.a. (Applicants must be registered Architects and Associates of the R.I.B.A.)

ARCHITECTURAL ASSISTANTS, "Basic Grade," £690—£840 p.a. (Applicants should have passed Parts I and II of the R.I.B.A. Final or Special Examination or their equivalent.)

ARCHITECTURAL ASSISTANTS, A.P.T. I, £530—£610 p.a. (Applicants should have passed the R.I.B.A. Intermediate Examination or its equivalent.)

The appointments offer scope for experience in large-scale central area development, and preference will be given to those with a keen interest in contemporary design.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be addressed to the Director of Housing, Town Hall, Manchester, 2, to be received not later than May 15th, 1956. 9670

CORPORATION OF DUBLIN
Vacancies for
TEMPORARY PLANNING ASSISTANTS, GRADE II

Latest date for receipt of application forms: 14th May, 1956.

Salary: £910 9s. per annum, fully inclusive of cost-of-living allowance.

Application forms and full particulars from the Establishment Department, City Hall, where completed forms should be lodged.

JOHN P. KEANE,
City Manager and Town Clerk.

City Hall, Dublin. 11th April, 1956. 9757

COUNTY BOROUGH OF DERBY
BOROUGH ARCHITECT'S DEPARTMENT

(*a*) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV (£710—£885 per annum).

(*b*) SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade V (£795—£970 per annum).

Commencing salary will be according to qualifications and experience.

Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.

Applicants must state for which post they are applying.

Further particulars and application forms obtainable from and to be returned to The Borough Architect, The Council House, Corporation Street, Derby, not later than Monday, 7th May, 1956.

G. H. EMLYN JONES,
Town Clerk.

11th April, 1956. 9665

LEYTON COMMITTEE FOR EDUCATION
APPOINTMENT OF
JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the permanent appointment of a JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £560—£640 per annum including London weighting (£30) which is reduced according to scale where age is less than 26.

The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, London, E.10.

Alternate Saturday mornings free of duty and canteen facilities available.

Details and forms of application from the Borough Education Officer, Kirkdale Road, Leytonstone, E.11, to whom they should be returned by Wednesday, 9th May, 1956.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.
7th April, 1956. 9648

URBAN DISTRICT COUNCIL OF EAST BARNET

Applications are invited for the following permanent appointments:—

(*a*) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£710 to £885 per annum).

(*b*) ASSISTANT ARCHITECT, Grade A.P.T. III (£640 to £765 per annum).

(*c*) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£595 to £675 per annum).

(*d*) DRAUGHTSMAN (ARCHITECTURAL), Grade A.P.T. I (£530 to £610 per annum).

All salaries will be increased by London weighting of £20 to £30 per annum, according to age.

Housing accommodation will be provided for appointments (*a*) and (*b*) if necessary.

Conditions of Appointment and Forms of Application, returnable by 7th May, 1956, may be obtained from the Engineer and Surveyor, Town Hall, Station Road, New Barnet, Hertfordshire. 9503

GLOUCESTERSHIRE COUNTY COUNCIL

ASSISTANT ARCHITECTS required. Qualified Members of R.I.B.A., with motor car driving licence.

A.P.T. Grade V (£795—£970).
A.P.T. Grade Special (£690—£840).
A.P.T. Grade III (£640—£765).

ARCHITECTURAL ASSISTANT. R.I.B.A. Intermediate Examination.
A.P.T. Grade II (£595—£675).

Medical examination and N.J.C. service conditions for all posts.

Apply giving age, present position, salary and date of appointment, previous appointments, names and addresses of two referees, to County Architect, Shire Hall, Gloucester, by 3rd May, 1956.

GUY H. DAVIS,
Clerk of the County Council.

9731

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE
CITY ARCHITECT'S DEPARTMENT

The City Architect will be pleased to receive applications from suitably qualified persons for the following vacancies in the Architectural Sections of his Departments:—

(*a*) SENIOR ASSISTANT ARCHITECT, A.P.T. Division Grade VI (£880—£1,080). Education Section.

(*b*) SENIOR ASSISTANT ARCHITECT, A.P.T. Division Grade V (£795—£970). General, Housing or Education Sections.

(*c*) SENIOR ASSISTANT ARCHITECT, A.P.T. Division Grade IV (£710—£885). General, Housing or Re-Housing Sections.

(*d*) ASSISTANT ARCHITECT, A.P.T. Division Grade III (£640—£765). Housing or Re-Housing Sections.

(*e*) ASSISTANT ARCHITECT, A.P.T. Division Grade II (£595—£675). Housing Section.

(*f*) ARCHITECTURAL ASSISTANT, A.P.T. Division Grade I (£530—£610). Housing Section.

The above are all established posts, and will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and to one month's notice on either side. Successful candidates will be required to pass a medical examination.

Applications, stating position applied for, age, particulars of training, qualifications, experience, present and past appointments, together with copies of two recent testimonials or the names and addresses of two persons to whom reference may be made, should be addressed to George Kenyon, Esq., A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON,
Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.
13th April, 1956. 9707

SOUTH WESTERN REGIONAL HOSPITAL BOARD

Applications are invited for the following additional appointments under the direction of the Regional Architect or Regional Engineer:

(*a*) Two ASSISTANT ARCHITECTS, £640×£25(4)×£30(4)×£35(2)—£930.

(*b*) One SENIOR ASSISTANT QUANTITY SURVEYOR, £920×£30(5)×£25(1)—£1,095.

(*c*) Two ASSISTANT QUANTITY SURVEYORS £640×£25(4)×£30(4)×£35(2)—£930.

(*d*) Two ENGINEERING ASSISTANTS, £480×£20(7)×£25(2)—£670.

(*e*) One ENGINEERING DRAUGHTSMAN, £390×£20(2)×£25(6)—£580.

Applicants for (*a*) must be registered Architects, (*b*) and (*c*) corporate members of the R.I.C.S. and (*d*) hold the appropriate ordinary National Certificate or its equivalent.

The Board may fix the starting salary for all posts except (*b*) at an incremental point above the minimum of the scale on account of experience provided that the additional increments given are not more than the number of years by which the applicant exceeds 25 years.

The appointments are subject to the provisions of the National Health Service Superannuation Regulations, 1952, and are terminable by one month's notice on either side. Applications, suitably endorsed and stating age, experience, qualifications, present post and salary, together with the names of two referees, should be addressed to the undersigned to be received by: (*a*), (*b*) and (*c*), 14th May, 1956; (*d*) and (*e*), 29th May, 1956.

M. O. CARTER,
Secretary.

27, Tyndall's Park Road,
Bristol, 8.
MRB. 14.4.1956. 9712

CITY ARCHITECT'S DEPARTMENT, MANCHESTER

Applications are invited for the following appointments on the permanent staff:—

(*a*) **SENIOR ASSISTANT ARCHITECT.** Salary A.P.T. Grade V (£795 to £970 per annum). Applicants must be A.R.I.B.A., with several years' office experience.

(*b*) **SENIOR ASSISTANT ARCHITECT.** Salary A.P.T. Grade IV (£710 to £885 per annum). Applicants must be A.R.I.B.A.

(*c*) **ASSISTANT ARCHITECT** or **ARCHITECTURAL ASSISTANT.** Salary Basic Grade (£690 to £840 per annum). Applicants must have passed Parts I and II of the R.I.B.A. Final Examination or its equivalent, and have had at least 5 years' experience, including the period spent on theoretical training.

(*d*) **ARCHITECTURAL ASSISTANT.** Salary Grade A.P.T. I-II (£530 to £675 per annum). Applicants must have passed the R.I.B.A. Intermediate Examination or its equivalent.

Further particulars and forms of application may be obtained from the City Architect, Box No. 488, Town Hall, Manchester, 2. The completed form to be returned to the same address by 12th May, 1956. Canvassing is prohibited. 9765

HERTFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT— QUANTITY SURVEYING STAFF

Applications are invited for the following:—

(*a*) **SENIOR ASSISTANT QUANTITY SURVEYOR,** Grade V (£795—£970).

(*b*) **ASSISTANT QUANTITY SURVEYORS,** Grade IV (£710—£885).

(*c*) **SENIOR WORKER-UP** (£750×£30—£900).

(*d*) **WORKERS-UP** (£250×£25—£400, £400×£25—£600, £600×£25—£750).

Previous Local Government experience not essential. Applicants must give full particulars of qualifications, training and experience, and state clearly which post is applied for.

Applications, with names of two referees, to County Architect, County Hall, Hertford, Herts., not later than 7th May, 1956. 9766

HER MAJESTY'S OVERSEA CIVIL SERVICE

Applications are invited for the following post:—

ARCHITECT—WEST AFRICAN BUILDING RESEARCH INSTITUTE, GOLD COAST

To assist in design of main buildings for Institute, and organisation and supervision of Division of Architectural Research, including the design of buildings for West African conditions, housing studies, cost studies, and the Institute's Information Services.

Appointment is to Research Branch of Her Majesty's Oversea Civil Service *either* on probation for permanent and pensionable establishment *or* on contract for two tours of 18 to 24 months. Salary £1,575—£1,829. Contract gratuity £161—£219 p.a. Furnished quarters provided at low rental. Free passages for officer, wife and children under 13 years. 7 days' leave for each month of resident service. Candidates should have good Honours Degree in Architecture or be A.R.I.B.A., and have had at least 2 years' experience in design and erection of buildings in tropical areas. Research experience desirable. Active interest in application of research to building problems essential. Apply in writing to Director of Recruitment, Colonial Office, London, S.W.1, stating age, qualifications, experience. Quote reference No. BCD 197/487/01. 9769

BOROUGH OF BARNES

Applications are invited for the following appointments:—

(*a*) **TEMPORARY SENIOR ARCHITECTURAL ASSISTANT,** A.P.T. Grade IV (£740×£25—£915). Candidates should preferably have passed the R.I.B.A. Final Examination and have had some architectural experience.

(*b*) **TEMPORARY ARCHITECTURAL ASSISTANT,** A.P.T. Grade III (£670×£25—£795). Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had experience in the preparation of plans and details.

Applications, giving the names of two persons to whom reference can be made, should be sent to the undersigned not later than Friday, 11th May, 1956.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S.,
Borough Engineer and Surveyor.

Municipal Offices, Sheen Lane, S.W.14.
18th April, 1956. 9771

COUNTY BOROUGH OF WEST HARTLEPOOL APPOINTMENT OF CHIEF QUANTITY SURVEYOR, GRADE A.P.T. V

Applications are invited for the appointment of Chief Quantity Surveyor, in the Borough Architect's Department, at a salary in accordance with Grade A.P.T. V (£795—£970). The commencing salary will be fixed according to the qualifications and experience of the successful applicant.

Applications, stating age, training, qualifications and details of experience, together with not more than three copies of recent testimonials, should be submitted to the Borough Architect, Municipal Buildings, West Hartlepool, not later than noon on Friday, the 25th May, 1956.

The Council is prepared to provide housing accommodation for the successful applicant, if required.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings, West Hartlepool.
17th April, 1956. 9758

PONTYPRIDD URBAN DISTRICT COUNCIL APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with A.P.T. Division, Grade II (£595—£695 per annum).

Candidates must have passed the R.I.B.A. Intermediate Examination or its equivalent.

This appointment is subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

Particulars of the mode of application are obtainable from Mr. W. Cecil Evans, Engineer and Surveyor, Municipal Buildings, Pontypridd, Glam., and should be obtained by intending candidates. Housing accommodation will be provided if necessary.

Applications, in form required, together with names and addresses of three persons to whom reference may be made, must be delivered to the undersigned not later than Saturday, the 12th day of May, 1956.

Canvassing will be a disqualification, and candidates must disclose any relationship to members of the Council.

BERNARD M. MURPHY,
Clerk of the Council.

Municipal Buildings, Pontypridd. 9775

ROYAL BOROUGH OF KINGSTON-UPON-THAMES BOROUGH SURVEYOR'S DEPARTMENT

Applications are invited for the following post:—

ARCHITECTURAL ASSISTANT, A.P.T. Grade II (£595—£675 per annum).

Salary quoted is basic, to which London weighting should be added. National Scheme of Conditions of Service applies. Canvassing will disqualify. Details and Forms of Application from Borough Surveyor, Guildhall, Kingston-upon-Thames. Applications returnable by the 14th May, 1956.

A. B. ROGERS,
Town Clerk.

Guildhall, Kingston-upon-Thames. 9784

SOUTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD

Applications are invited for an **ARCHITECTURAL ASSISTANT.** Salary according to age and experience, £480 (at age of 21)—£670 per annum, plus London weighting. Superannuable.

Applicants must have passed the Intermediate Examination of the R.I.B.A. or equivalent. Applications, stating age, previous experience, etc., with two referees, to the Secretary, 11, Portland Place, London, W.1, by 9th May, 1956. 9789

WARWICKSHIRE COUNTY COUNCIL ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

(*a*) **SENIOR ASSISTANT ARCHITECTS,** Grade A.P.T. V (£795—£970). Applicants must be competent designers, having a knowledge of modern methods of construction, and be capable of handling large building projects from sketch plan stage to completion.

(*b*) **ARCHITECTS,** Grade A.P.T. IV (£710—£885). Applicants must be competent designers, having a good knowledge of construction and be capable of handling medium sized contracts.

(*c*) **ASSISTANT ARCHITECTS,** scale £690—£840. The successful applicants will work in teams on large projects, but opportunity will be given to men with enthusiasm and ability to design and carry out smaller projects under the group architect.

(*d*) **QUANTITY SURVEYING ASSISTANTS,** Grade A.P.T. IV (£710—£885). Applicants should have had a thorough training and be competent to deal with "taking off," abstracting, billing, interim valuations, and settlement of final accounts.

The commencing salaries can be within the grades, according to the ability and experience. The appointments are on the established staff and subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities, and are subject to the Local Government Superannuation Acts, 1937-1953. Successful candidates will be required to pass a medical examination.

The Council is unable to offer successful candidates housing accommodation.

Applications are to be on forms which can be obtained from G. R. Barnsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall, Warwick.
April, 1956. 9790

FIFE COUNTY COUNCIL PLANNING DEPARTMENT, CUPAR

Applications are invited for appointment as **PLANNING ASSISTANT** in the above department. Applicants should have practical experience in the preparation of planning schemes, and preferably have passed the Intermediate Examination of the Town Planning Institute. Salary A.P.T. Grades I and II, *i.e.*, £550 to £625 per annum. Medical examination under Superannuation Scheme. Applications, stating age, qualifications and experience, to be lodged with the undersigned not later than 7th May, 1956.

MATTHEW POLLOCK,
County Clerk.

County Buildings, Cupar-Fife. 9794

LANCASHIRE COUNTY COUNCIL ARCHITECT'S DEPARTMENT VACANCIES FOR ARCHITECTS:

Salary £865×£35—£970 per annum. Schools and general work. The office is organised on a Group Basis, and there is a large and interesting programme of work. Continuous research on the economics of building is a policy of the office.

VACANCIES FOR QUANTITY SURVEYORS:

(1) £960×£40—£1,000. To take charge of large contracts from taking-off to settlement of final accounts.

(2) £865×£35—£970. To work with a section on taking-off for all sizes of contracts and to assist in final settlements.

(3) £780×£35—£885. To assist in all branches of work from taking-off to site measurement.

Application forms from the County Architect, P.O. Box 26, County Hall, Preston, to be returned by Monday, 7th May, 1956, quoting ref. A/AJ. 9783

CITY OF ROCHESTER ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of Architectural Assistant in the City Surveyor's Department, at a salary in accordance with Grade A.P.T. III (£640—£765).

Candidates should have general experience, including the preparation of drawings and specifications for Municipal housing schemes. Preference will be given to candidates who are Registered Architects.

The commencing salary will be according to qualifications and experience.

There is a varied programme of work, including the redevelopment of clearance areas, and the development of a large area added to the City.

In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation, and will be prepared to refund removal expenses after 12 months' service.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, a satisfactory medical examination, and one month's notice on either side.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, 66, Maidstone Road, Rochester, not later than Thursday, 17th May, 1956.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall, Rochester.
19th April, 1956. 9764

METROPOLITAN BOROUGH OF BERMONDSEY BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT ARCHITECTURAL SECTION

Applications are invited for the following appointments, from suitably qualified persons with experience of contemporary styles of architecture.

(*a*) **ASSISTANT ARCHITECT** (1) Grade III-V, £640—£970 (plus London Weighting).

(*b*) **ARCHITECTURAL ASSISTANTS** (2) Grade III, £640—£765 (plus London Weighting).

Candidates for post (*a*) must be Associates of the R.I.B.A., with subsequent office experience, preferably of housing projects, and must be competent designers capable of handling large building schemes from sketch design stage to completion.

Candidates for post (*b*) must have passed the Intermediate Examination of the R.I.B.A. and have had previous office experience, preferably of housing projects.

Commencing salary in both cases will be within the grade stated according to ability and experience.

Application form and further details may be obtained from the undersigned. Closing date 14th May, 1956.

S. E. FREEMAN,
Town Clerk.

Municipal Offices,
Spa Road,
London, S.E.16. 9773

ORPINGTON URBAN DISTRICT COUNCIL APPOINTMENT OF ARCHITECTURAL ASSISTANT (A.P.T. GRADE V)

Applications are invited from suitably qualified applicants for the established appointment of Architectural Assistant (A.P.T. Grade V) in the Engineer and Surveyor's Department.

Applicants should preferably be members of the Royal Institute of British Architects, and must have had experience in the design of houses, preparation of plans and working drawings, specifications and quantities.

Salary in accordance with Grade A.P.T. V of the National Salary Scales, plus London area weighting.

The appointment is superannuable, and the successful candidate will be required to pass a medical examination.

Applications, which must be completed by reference to general particulars and conditions of appointment, obtainable upon request, should reach the Clerk and Solicitor, Council Offices, Orpington, by the 14th May, 1956.

Consideration may be given to the provision of housing accommodation for the successful applicant, if required.

By the Council's direction, canvassing will be a disqualification. 9741

BOROUGH OF SOLIHULL
QUANTITY SURVEYING ASSISTANT
A.P.T. GRADE II (£595 × £20 — £675)

Applications are invited for the above-mentioned post in the Borough Engineer & Surveyor's Department.

No Application Forms are being issued, but the Borough Engineer will be pleased to answer specific questions regarding the position.

Commencing salary may be fixed at an appropriate stage within the grade, according to qualifications and experience.

The appointment is subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and one month's notice.

Where applicable, housing accommodation may be made available as soon as possible.

Applications, giving the names of two referees, to Mr. C. R. Hutchinson, B.Sc., A.M.I.C.E., Borough Engineer & Surveyor, 90, Station Road, Solihull, not later than 18th May, 1956.

W. MAURICE MELL,
Town Clerk.
9779

SOUTH-EASTERN REGIONAL HOSPITAL BOARD, SCOTLAND

Applications are invited for the following superannuated posts on the staff of the Regional Architect:—

SENIOR ARCHITECT (Temporary) £920 × £30 (5) × £25 (1) — £1,095.
ASSISTANT ARCHITECT (Temporary) £640 × £25 (4) × £30 (4) × £35 (2)—£930.
ARCHITECTURAL ASSISTANTS (Temporary) £480 (at age 21 or over) × £20 (7) × £25 (2)—£670.
ARCHITECTURAL ASSISTANTS (Permanent) £480 (at age 21 or over) × £20 (7) × £25 (2) — £670.

The commencing salaries will depend upon the experience of the successful candidates.

The posts offer an excellent opportunity to work on large-scale Hospital projects.

Applications giving details of age, qualifications and experience, along with the names of two referees, should be sent to THE REGIONAL ARCHITECT, 8, DRUMSHEUGH GARDENS, EDINBURGH, 3, within seven days of this advertisement. 9781

BOROUGH OF BARKING
DEPARTMENT OF THE BOROUGH ARCHITECT

Applications are invited for the following appointments on the established staff:

1. ASSISTANT ARCHITECT A.P.T. IV (£710—£885 × five annual increments).
2. ASSISTANT ARCHITECT, A.P.T. III-IV (£640—£885 × nine annual increments).

Plus London Weighting £20—£30 per annum according to age.

Applications stating age, qualifications, past and present appointments with details of experience, together with the names of three referees, should reach the undersigned not later than 7th May, 1956.

E. R. FARR,
Town Clerk.

Town Hall,
Barking, Essex. 9770

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE
OFFICE OF THE COUNTY ARCHITECT

Applications are invited for appointments as ASSISTANT ARCHITECTS or ARCHITECTURAL ASSISTANTS in the grades shown below, the salary ranges of which are:—

A.P.T. I (£530—£610).
A.P.T. II (£595—£675).
A.P.T. III (£640—£765).
Special (£690—£840).
A.P.T. IV (£710—£885).

Applicants for Grades A.P.T. III, Special and A.P.T. IV should be registered Architects and Associate Members of the Royal Institute of British Architects, and have had good training in the design and construction of modern buildings. Applicants for Grade A.P.T. II should have passed the Intermediate R.I.B.A. examination.

Extensive and interesting programmes of first-class architectural work, with opportunities for taking responsibility and supervising work in progress.

The appointments are subject to the provisions of the Local Government Superannuation Acts and to the successful candidates passing a medical examination.

Applications may be obtained from this office and should be returned as quickly as possible.

HUBERT BENNETT,
County Architect.
Bishopgarth, Westfield Road, Wakefield. 9716

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of DEPUTY CITY ARCHITECT, at the salary of £1,412 10s.—£1,622 10s. p.a.

The City Architect is responsible for all Architectural work for the Council.

Applications, stating age, qualifications and details of experience, together with names of three referees, must be delivered to the undersigned, in endorsed envelopes marked "Appointment of Deputy City Architect," not later than Friday, 11th May, 1956.

Canvassing will disqualify.

J. H. LLOYD OWEN,
City Architect.
10, Loseby Lane, Leicester. 9722

HAMPSHIRE

Applications are invited for the appointment of a TECHNICAL ASSISTANT in the County Planning Department, on Grade III of the National Scales (£640—£765), to work in the North-East Area Office at Basingstoke. Candidates should have passed the Intermediate Examination of the Town Planning Institute or of a related professional body, and have had experience in the Planning Department of a Planning Authority. The appointment is pensionable, and will be subject to a satisfactory medical report.

In approved cases the County Council are prepared to assist newly appointed staff to meet removal and other expenses.

Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names of two referees, should reach the County Planning Officer, Litton Lodge, Clifton Road, Winchester, by the 5th May. 9721

BOROUGH OF WATFORD
APPOINTMENT OF SENIOR ASSISTANT ARCHITECT

Applications are invited for the above post, at a salary within Grade V, A.P.T. (£795—£970 p.a.). Housing accommodation will be made available if required.

Forms on application, returnable by Friday, 4th May, 1956.

F. C. SAGE,
Borough Engineer, Surveyor and Architect.

Town Hall, Watford.
12th April, 1956. 9719

MIDDLESBROUGH EDUCATION COMMITTEE
APPOINTMENT OF ARCHITECTURAL STAFF

Applications are invited from suitably qualified persons for the following vacancies in the Education Architect's office.

Appointments will be made within the grades as indicated, subject to qualifications and experience.

(*a*) SENIOR ASSISTANT ARCHITECT, A.P.T., Grade V (£795—£970).
(*b*) ASSISTANT ARCHITECTS, Special Scale (£690—£840).
(*c*) DRAUGHTSMAN or DRAUGHTSWOMAN, Miscellaneous Grade III (£445—£510).

HOUSING accommodation is available for the successful applicants for posts (*a*) and (*b*), if required.

An excellent opportunity is offered for participation in the Committee's varied and extensive Educational Building Programme.

Application forms and particulars may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom completed forms should be returned not later than 7th May, 1956. 9723

LINDSEY COUNTY COUNCIL
PLANNING DEPARTMENT

Applications are invited for the appointment of SENIOR ASSISTANT (ARCHITECTURAL) at Headquarters, Lincoln. Grade A.P.T. IV (£710—£885). Successful candidate will be in charge of the architectural work of the department, and should have experience in dealing with re-development schemes, housing layouts and architectural control. This appointment involves responsibility and provides a wide scope for an architect who is interested in the related architectural/planning problems of a County Planning Authority. Membership of R.I.B.A. essential. Superannuation and N.J.C. conditions of service. Post requires officer to provide own car for official journeys, for which allowance will be paid at essential user's rate for car not exceeding 10 h.p. or 1,214 c.c. Canvassing will disqualify. Relationship to any member or senior officer of the Council to be disclosed in writing by applicants.

Applications, with full particulars of age, training, qualifications, experience, and names and addresses of two referees to R. L. Stirling, County Planning Officer, The Castle, Lincoln, not later than 4th May, 1956. 9724

COUNTY BOROUGH OF DEWSBURY
BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT

Applications are invited for the following appointments in the above Department:—

(*a*) ASSISTANT ARCHITECT (Education Section), A.P.T. Grade IV (£710—£885 p.a.), and
(*b*) QUANTITY SURVEYOR'S ASSISTANT, A.P.T. Grade II (£595—£675 p.a.).

The commencing salaries will be fixed within the scope of the grades stated, according to qualifications and experience. Applicants for appointment (*a*) should be Registered Architects, with good architectural experience and a knowledge of local government procedure.

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful applicants will be required to pass a medical examination.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Monday, 7th May, 1956, endorsed "Assistant Architect" or "Quantity Surveyor's Assistant."

A. NORMAN JAMES,
Town Clerk.
Town Hall, Dewsbury.
16th April, 1956. 9725

DURHAM COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
STRUCTURAL ENGINEER

Salary J.N.C. Scale 'B' £1,092—£1,307½. Must be B.Sc.(Eng.), or A.M.I.C.E., or A.M.I.Struct.E. with experience in designing and detailing steel framed and reinforced concrete framed structures. Forms and particulars from County Architect, South Street, Durham. Closing date 5th May, 1956.

J. K. HOPE,
Clerk of the County Council.
9777

COUNTY BOROUGH OF BLACKBURN

Applications invited for the following permanent appointments:

(*a*) CHIEF QUANTITY SURVEYOR. Grade A.P.T. V £795—£970.

Applicants must be Associates of the Royal Institution of Chartered Surveyors (Quantities sub-division) and be fully experienced and capable of organizing and leading the section in the preparation of Contract Documents, Bills of Quantities, Specification, Estimates, settlement of Final Accounts with Contractors, and general administrative work within the section.

(*b*) ARCHITECTURAL ASSISTANTS. A.P.T. Special Grade £690—£840.
(*c*) ARCHITECTURAL ASSISTANTS. Grade A.P.T. I or II £530—£675 according to experience.

Candidates for appointments (*b*) and (*c*) must have the specific qualification and experience relative to the posts.

Applications stating age, qualifications, experience, past and present appointments, with at least two testimonials, to the Borough Engineer, Town Hall, Blackburn, by May 11th.

Housing accommodation will be provided if required.

FRANK SQUIRES,
Town Clerk.
9778

BOROUGH OF SCUNTHORPE
ASSISTANT ARCHITECTS

Applications are invited for Assistant Architects to work under the direction of the Chief Assistant Architect in the department of the Borough Surveyors.

(*a*) ASSISTANT ARCHITECT, Grade A.P.T. V (£795 × £35—£970).
(*b*) ASSISTANT ARCHITECT, Special Grade (£690 × £30—£840).
(*c*) ASSISTANT ARCHITECT, Grade A.P.T. II (£595 × £20—£675).

In the case of appointments (*a*) and (*b*) preference will be given to Chartered Architects, and in the case of (*c*) the applicants should have passed the Intermediate R.I.B.A. Examination. The commencing salary will be fixed according to qualifications and experience.

The work will be of an interesting and varied character in an extending town with a population of nearly 60,000.

Housing accommodation will be available if required.

Applications, stating particulars of training and experience, and giving the names of two referees, should reach the undersigned not later than Monday, 14th May, 1956.

W. P. ERRINGTON,
Town Clerk.
Municipal Offices, 34, High Street, Scunthorpe.
16th April, 1956. 9749

STAFFORDSHIRE COUNTY COUNCIL
EDUCATION ARCHITECT'S DEPARTMENT
ENGINEERS AND ELECTRICAL ENGINEERS

Applications are invited from competent Heating Engineers qualified and experienced in the preparation of large heating schemes for educational establishments. Grade A.P.T. IV (£710—£885 p.a.), preferably Members of the Heating and Ventilating Engineers' Institute.

ENGINEERING CLERKS OF WORKS, experienced in the supervision of all heating and engineering works for educational establishments, Grade A.P.T. II (£595—£675 p.a.).

ELECTRICAL ENGINEER, qualified and competent to design lighting schemes for all educational establishments, Special Grade (£690—£840 p.a.), or Grade A.P.T. IV (£710—£885 p.a.), according to qualifications and experience.

The offices are modern and well-equipped, situate in a pleasant part of the town, and the Department has a large programme of interesting and varied work.

Forms of Application from A. C. H. Stillman, F.R.I.B.A., County Education Architect, Green Hall, Lichfield Road, Stafford, to be returned 10 days from the receipt thereof.

(Sgd.) T. H. EVANS,
Clerk of the County Council.
9753

COUNTY BOROUGH OF SOUTHAMPTON
requires under N.J.C. conditions of service:—

ASSISTANT ARCHITECT, Special Scale (£690—£840).

Applicants should have passed Parts I and II of the R.I.B.A. Final Examination (or equivalent), and have had at least 5 years' experience, including period spent on theoretical training, and preferably have had experience in Municipal housing estate development and administration of contracts.

If assistance in housing accommodation is needed, please state requirements.

Apply, with copies of two testimonials, to the Borough Engineer and Surveyor, Civic Centre, Southampton, by Monday, 7th May, 1956. 9730

STAFFORDSHIRE COUNTY COUNCIL
EDUCATION ARCHITECT'S DEPARTMENT

Applications are invited in respect of the following posts:—

TRAINEE CLERKS OF WORKS, at 9 guineas per week; craftsman with a broad interest in the building trade preferred; this presents an opportunity for training in supervisory duties under a Senior Clerk of Works.

Candidates would be expected to take the Clerks of Works Examination within approximately two years, and trainees would then be considered for appointment as qualified Clerks of Works.

CLERK OF WORKS, at 12 guineas per week, for Wolverhampton and Staffs. Technical College Extensions, Stage IV (£85,000). Applicants must be experienced Clerks of Works. The job is expected to last 28 months.

Forms of Application from the County Education Architect, Green Hall, Lichfield Road, Stafford, to be returned within 10 days of this advertisement.

(Sgd.) T. H. EVANS,
Clerk of the County Council.
9756

ARGYLL COUNTY COUNCIL

Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT, for the County Architect's Department. Salary scale: A.P.T. I-III (£550—£665), with placing according to experience and qualifications. The post is superannuable. Applicants must have completed a 5 years' apprenticeship, and be capable of taking-off, preparing bills of quantities, and re-measuring all trades.

Apply, giving details of qualifications and experience, along with copies of two recent testimonials, to County Architect, County Offices, Dunoon, within 7 days of publication.

A. D. JACKSON,
County Clerk.
9774

BURGH OF KILMARNOCK
BURGH ARCHITECT'S DEPARTMENT
ARCHITECTURAL ASSISTANTS

Applications are invited for the following appointments:—

(*a*) ARCHITECTURAL ASSISTANT, Grade V. Salary scale: £710×£15×£15×£20 to £760.

(*b*) ARCHITECTURAL ASSISTANT, Grade X. Salary scale: £550×£15×£15×£15 to £595.

Salary and conditions to be in accordance with the recommendations of the Joint Industrial Council for Local Authority Services (Scotland).

The posts are superannuable, and the applicants will have to pass a medical examination satisfactorily.

Housing accommodation will be made available for successful applicant for appointment (*a*) only.

Applications, giving full particulars of age and experience, accompanied by copies of testimonials, to be lodged with N. S. Sutherland, Burgh Architect, 64a, Bank Street, Kilmarnock, not later than the 11th May, 1956.

W. L. WALKER,
Town Clerk.

Council Chambers, Kilmarnock.
16th April, 1956. 9760

BOROUGH OF BLYTH
SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS

Applications are invited for the following posts in the Borough Engineer's Department, namely:—

(*a*) SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with the Special Grade for qualified Architectural Assistants, namely £690 p.a., rising by annual increments of £30 to £840 p.a., such applicants to be Registered Architects or hold the Final Examination of the R.I.B.A.

(*b*) JUNIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service, namely £530 a year, rising by annual increments of £20 to £610 a year.

Both the above appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the passing of a medical examination, and to termination by one month's notice on either side.

Applications, accompanied by the names of two referees, must reach the undersigned not later than 24th May, 1956.

Canvassing will disqualify, and applicants must disclose relationship with any member or senior official of the Council.

HOUSING ACCOMMODATION will be provided for both successful applicants, if necessary.

EDWIN W. CARTER,
Town Clerk.

75, Marine Terrace, Blyth. 9751

PADDINGTON BOROUGH COUNCIL

Require BUILDING SURVEYING ASSISTANT (A.P.T. II—£625 to £705 per annum). Candidates should have practical knowledge of building construction, experience in surveying and levelling, the repair, adaptation and conversion of civil and residential properties, and be capable of preparing plans, specifications and estimates of costs in respect of those works and their supervision. Candidates preferred at advanced stage of preparation for R.I.C.S. Intermediate or equivalent examination. Written applications, stating age, qualifications, experience and names and addresses of three referees, should reach the undersigned (quoting A.282) by 1st May, 1956.

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington Green, W.2. 9700

EAST RIDING OF YORKSHIRE
COUNTY COUNCIL

Applications are invited for the following permanent appointments on the staff of the County Architect:

STRUCTURAL ENGINEER, Grade IV (£710—£885).

ASSISTANT ARCHITECT, Special Scale (£690—£840).

Applications, giving particulars of qualifications and experience, age, past and present appointments and salaries, together with the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than Friday, 4th May, 1956.

THOMAS STEPHENSON,
Clerk of the Council.

County Hall,
Beverley.
April, 1956. 9705

THE UNIVERSITY OF MANCHESTER

Applications are invited for the post of LECTURER IN ARCHITECTURE. Applicants must have had not less than three years' practical office experience. Salary on a scale rising to £1,350 per annum with membership of F.S.S.U. and Children's Allowance Scheme: initial salary according to qualifications and practical experience. Applications should be sent not later than May 9th, 1956, to the Registrar, the University, Manchester, 13, from whom further particulars and forms of application may be obtained. 9588

PADDINGTON BOROUGH COUNCIL

Require QUANTITY SURVEYOR'S ASSISTANT (A.P.T. II—£625 to £705 p.a.). Candidates should have experience in preparation of estimates, working up, abstracting, billing, site measurement and work up to final account stage. Preference to candidates being holders of, or at standard of, Inter. R.I.C.S. (Quantities sub-Division). Applications, stating age, qualifications, experience, present and past appointments, names and addresses of three referees, should be sent to the undersigned (quoting A.283) by 1st May, 1956.

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington Green, W.2. 9701

IMPERIAL WAR GRAVES COMMISSION require an ASSISTANT ARCHITECT for employment in France. Candidates should have received recognised training and be Associates of the R.I.B.A. A good knowledge of the French language is desirable. Salary within the range £750—£1,050 per annum, according to age and qualifications. Foreign Local Allowance payable in addition. Approximate duration of appointment in two years. Applications should be forwarded to the Appointments Officer, Imperial War Graves Commission, Wooburn House, Wooburn Green, Buckinghamshire. 9735

CITY OF LEEDS
CITY ARCHITECT'S DEPARTMENT

Applications are invited for the post of SENIOR ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. VI (£800—£1,000).

The officer appointed will be next in seniority to the Chief Quantity Surveyor, and he will be in charge of the Quantity Surveyor's Section in his absence.

It is proposed to form a separate Section in the City Architect's Department to prepare schemes for the conversion of various properties as well as the conversion and development of properties in Improvement Areas. The Chief Assistant Architect will be directly responsible to the City Architect for the work of this section, which will consist of the following staff for which applications are now invited.

CHIEF ASSISTANT ARCHITECT, A.P.T. VI (£880—£1,080).

ASSISTANT ARCHITECT, A.P.T. IV (£710—£885).

ARCHITECTURAL ASSISTANT, A.P.T. II (£595—£675).

ASSISTANT SURVEYOR, A.P.T. II (£595—£675).

ASSISTANT SURVEYOR, A.P.T. I (£530—£610).

The Assistant Surveyors will be responsible for Measuring-up, Surveying and Plotting of buildings in addition to Land Surveying.

The payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of 6 months' service.

The appointments are subject to the Local Government Superannuation Acts, 1937-1953, and the successful applicants will be required to pass a medical examination.

Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned, together with copies of three recent testimonials, by 12 noon on Wednesday, 9th May, 1956.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A.,
City Architect.

Priestley House, Quarry Hill, Leeds, 9.
14th April, 1956. 9733

THE LONDON HOSPITAL, Whitechapel, E.1, requires JUNIOR ARCHITECTURAL ASSISTANT, salary £440 to £660 p.a. according to experience, plus London weighting. Post superannuable. Applications, stating age, present salary and brief particulars of experience, to be sent to the House Governor. Accommodation is available in Kensington if successful candidate is a woman. 9156

DERBYSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications invited for appointment of SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £795×£35 to £970 per annum. Applicants must be fully qualified. Pensionable post. Canvassing disqualifies.

Application forms from F. Hamer Crossley, Dipl.Arch.(L'pool), F.R.I.B.A., County Architect, County Offices, St. Mary's Gate, Derby. 9801

Tenders Invited

5 lines or under, 12s. 6d.: each additional line, 2s.

BOROUGH OF EALING
ERECTION OF 18 FLATLETS

Tenders are invited for the erection of two blocks of 3-storey, one bedroom and bedsitting room Flatlets, at 68-70, St. Mary's Road, Ealing.

Forms of Tender, Bills of Quantities and Plans may be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, upon a deposit of £2, which will be returned on receipt of a bona-fide Tender.

Tenders (in plain sealed envelopes, endorsed "Tender for Flatlets—St. Mary's Road," but bearing no name or mark indicating the sender) must be delivered at my office not later than 9.30 a.m. on 25th May, 1956.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. J. COPE-BROWN,
Town Clerk.

Town Hall, Ealing, W.5. 9709

BOROUGH OF EALING
ERECTION OF 4 BLOCKS OF 3-STOREY FLATLETS

Tenders are invited for the erection of 4 blocks of 3-storey, 1 bedroom and bedsitting Flatlets at Elers Road, Ealing, W.13.

Forms of Tender, Bills of Quantities and Plans may be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, upon a deposit of £2, which will be returned on receipt of a bone-fide Tender.

Tenders (in plain sealed envelopes, endorsed "Tender for Flatlets—Elers Road," but bearing no name or mark indicating the sender) must be delivered at my office not later than 9.30 a.m. on 25th May, 1956.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. J. COPE-BROWN,
Town Clerk.

Town Hall, Ealing, W.5. 9708

CITY OF BIRMINGHAM
HOUSING MANAGEMENT DEPARTMENT
REINFORCED CONCRETE FENCING POSTS

The Housing Management Committee of the Birmingham Corporation invites tenders for the supply and delivery of approximately 17,000 (seventeen thousand) 5-ft. 6-in. × 4-in. × 4-in. reinforced concrete fencing posts, to be supplied as required during a period of 12 months.

Forms of tender can be obtained from the undersigned at 19-29, Summer Row, Birmingham, 3, and should be returned by the 14th May, 1956.

J. P. MACEY,
Housing Manager.
9750

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

CO-OPERATIVE WHOLESALE SOCIETY, LTD. ARCHITECT'S DEPARTMENT, MANCHESTER.

APPLICATIONS are invited for the following appointments:—

(*a*) SENIOR ASSISTANT ARCHITECTS, with experience of work on commercial and industrial projects.

(Salary range £820 to £975 per annum.)

(*b*) ASSISTANT ARCHITECTS, capable of preparing working drawings from preliminary details.

(Salary range £560 to £820 per annum.)

There is a five-day week in operation, and both appointments offer prospects of upgrading.

Applications, stating age, experience, qualifications and salary required, to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 3871

SENIOR ARCHITECTURAL ASSISTANT required by United Dairies Ltd. Applicants to state age and experience in the preparation of surveys, sketch plans and working drawings, and be able to supervise work in progress. Apply in writing, stating qualifications and salary required, to Chief Architect, United Dairies Ltd., 31 St. Petersburgh Place, W.2 9060

ARCHITECTURAL ASSISTANT required, up to Intermediate standard, Westminster office. Pension and Bonus Schemes. Five-day week. Write, stating experience, age, and salary required, to Box 9271.

WOLVERHAMPTON Office of Diamond & Hodgkinson requires ASSISTANT of about Intermediate standard.—48, Queen Street, Wolverhampton. Telephone 21404. 9780

CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECT'S DEPARTMENT, LONDON.

ASSISTANT ARCHITECTS, WORKER-UP, AND SHOP FITTING DRAUGHTSMAN. Applications are invited from suitably qualified persons. Salary on a scale £485—£945 inclusive of L.W., with placing according to age, qualifications and experience. The posts are superannuable, subject to medical examination. Five-day week in operation. Applications, stating age, experience, qualifications and salary required, to.—W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 2824

ARCHITECTURAL ASSISTANT (male or female) required in Architect's Department of London Brewery Company. Must be good draughtsman. Write stating age, experience, salary required. Box 9581.

ARCHITECTURAL ASSISTANTS required for small West End Office. Good salaries. Write to Box 9580.

APPLICATIONS are invited for the positions of SENIOR ARCHITECTURAL ASSISTANTS in the London office of this organisation. Applicants must be first-class draughtsmen possessing a sound knowledge of building materials and construction. Applications, giving full details of training and experience, present employer, together with details of salary required, to Kendrick Findlay & Partners, Chartered Architects, 35, Tavistock Square, London, W.C.1. 9766

A CHARTERED ARCHITECT is required by a well-known firm of West End Estate Agents specialising in Commercial and Shop Development, wishing to enlarge their practice by establishing an Architectural Department. Applicants must be capable of working on own initiative in all stages of development from site survey, planning, local authority requirements and supervision to final completion of buildings and will be required to take full charge and responsibility of the department. In view of the influential nature and ramifications of advertisers' business, this proposal may appeal to a young and energetic Architect considering whether to commence his own practice or to an established firm under the control of a sole principal who would consider amalgamation. A share of profits earned by the department in addition to a good salary is contemplated as a preliminary during early stages of development, with a view to ultimate partnership in firm. Please reply in confidence with view to personal discussion with principals.—Box 9714.

SOUTH EAST SUSSEX. ARCHITECT'S ASSISTANT with office experience required in expanding private practice. Work is of an interesting and varied nature and applicants must be capable of supervising medium size jobs. State age, qualifications, experience and salary required, to Box 9791.

ARCHITECTURAL ASSISTANTS required by multiple shop company in London, up to Inter. standard, to take part in re-modelling of shops. Staff canteen, 5-day week.—Apply in writing, stating age, experience and salary, to Box 9788.

DRAUGHTSMAN required by Multiple Shop Company, with knowledge of shop fitting an advantage. Staff canteen, 5-day week.—Apply, giving age, experience and salary required, to Box 9787.

LANDSCAPE. Junior LANDSCAPE ASSISTANT required in Nottingham Architects' Office. Preferably passed Inter. I.L.A. Good draughtsmanship essential.—Apply Box 9717.

ASSISTANT, Intermediate standard, required. Wimperis, Simpson & Fyffe, 61, South Molton Street, W.1. Mayfair 1277. 9397

ARCHITECT'S Department of a multiple retail concern, require a shop fitting DRAUGHTSMAN with some building experience. Staff canteen, 5-day week, superannuation scheme.—Apply, stating age, experience and salary required, to Box 9786.

NORMAN & DAWBARN invite applications from ARCHITECTURAL ASSISTANTS of Inter. or higher standard. Interesting and varied programme of U.K. and overseas work.—Write to 7, Portland Place, London, W.1, or phone Langham 8011. 9718

FIRM of Architects with established and growing practice require SENIOR ASSISTANT ARCHITECT. Applicants should be between 25 and 35, qualified with office experience, quick and competent draughtsmen and capable of developing from sketch plan to completion in very general practice. Position will offer opportunity for junior partnership.—Percy, Hopkins & Partners, 19, Commercial Road, Woking, Surrey. 9720

HAMMERSMITH M.B.C.

SENIOR ARCHITECT, A.P.T. VI (£880/£40/£1,080 p.a., plus London weighting). Superannuation scheme. Applicants should be A.R.I.B.A. with Municipal experience.—Application forms, returnable by 14th May, 1956, from Town Clerk, Town Hall, Hammersmith, W.6 9806

ARCHITECT with small varied practice in West London requires ASSISTANT for preparation of working drawings, running contracts, etc. Salary £600-£700 according to experience.—Write details, Box 9728.

BRITISH RAILWAYS, London Midland Region. ARCHITECTURAL ASSISTANTS required in the Regional Architect's Office. Should be Associates of the R.I.B.A., must have keen interest in contemporary design and knowledge of modern structural technique. Salary £872-£910 per annum, five-day week. Residential and other travelling facilities available.—Apply in writing, giving particulars of age, qualifications and experience, Chief Civil Engineer (reference 17), British Railways, London Midland Region, 5A, Euston Grove, London, N.W.1. 9732

ARCHITECTURAL ASSISTANTS (Senior and Junior) required for general and commercial practice.—Apply, stating age, experience, qualifications and salary required, to Duncan Clark & Beckett, F/L.R.I.B.A., F/F.R.I.C.S., 7, West Stockwell Street, Colchester. 9736

ASSISTANT ARCHITECT required for important work in London. 5-day week, salary £600-£800.—Robinson & Bull, 3, Gray's Inn Square. CHAncery 7751. 9740

YOUNG ARCHITECTURAL ASSISTANT required for work on Brewery properties, hotels, shops, etc. Car driver preferred. Superannuation scheme. Please write stating age, qualifications, experience and salary required.—Apply, Chief Architect, Friary Brewery, Guildford. 9737

DRAUGHTSMAN to work in Brewery Architect's Department. Experience in alteration or conversion work an asset. State age, experience and salary required.—Apply Chief Architect, Friary Brewery, Guildford. 9738

GENERAL ARCHITECTURAL ASSISTANT required for nationally large scale housing development. Duties will include preparation of full working drawings and preference will be given to applicants who have had similar previous experience. Application should be addressed to Personnel Department, Taylor Woodrow Ltd., Ruislip Road, Southall, Middlesex 9495

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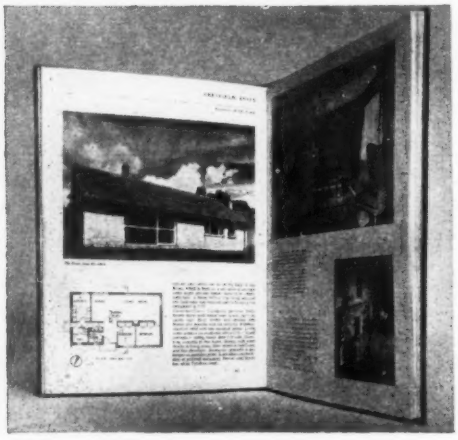
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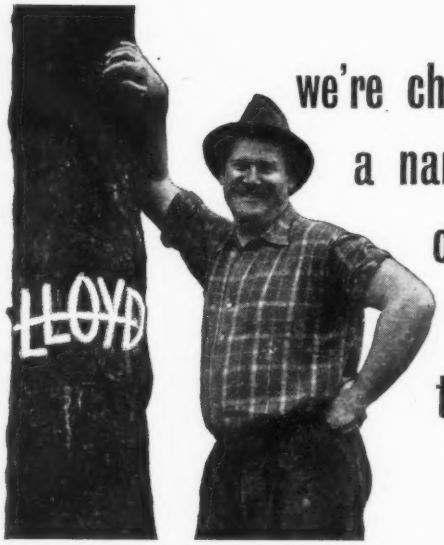
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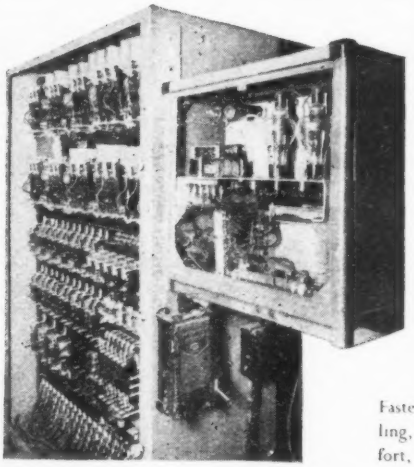
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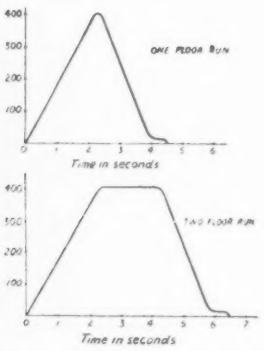


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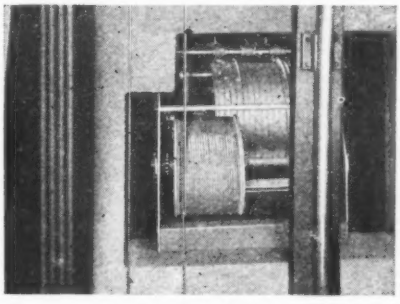


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